

CITY OF SAN DIEGO – SITE DEVELOPMENT PERMIT No. 219697

SESI LANDFILL CLOSURE [MMRP] – CITY PROJECT No. 1980

June 30, 2005

This City of San Diego Site Development Permit is granted by the County of San Diego to the Coordinating Committee for the Sesi Property [Permitee] pursuant to City San Diego Municipal Code [SDMC] Section 126.0504 and California Health and Safety Code, Division 20, Chapter 6.65, Section 25260 et seq.

The CalEPA Site Designation Committee for the site designated the County of San Diego Department of Environmental Health (DEH) as the lead agency for the site investigation and remedial action (SWRCB Resolution 96-19). The County will issue the City of San Diego Site Development Permit pursuant to Health and Safety Code, Division 20, Chapter 6.65, Section 25260 et seq.

The project is located at 1902 Cactus Road in the Industrial Subdistrict of the Otay Mesa Community Planning Area. Subject to the terms and conditions set forth in this Permit, permission is granted to Permittee to implement the project described in Exhibit A.

The exhibits are identified as follows:

Exhibit A: Construction Plans, Sheets 1-14.

The project described in Exhibit A is a landfill closure, which includes:

1. Construction of an engineered cover over an inactive landfill;
2. Construction of drainage controls;
3. Revegetation; and
4. Post-closure monitoring and maintenance.

Additional description of the project and related construction activities is available in the Removal Action Workplan (RAW) (ENV America, 2005), available in the County of San Diego Department of Environmental Health (DEH) project files.

CONDITIONS

STANDARD REQUIREMENTS:

1. Construction, grading or demolition must commence and be pursued in a diligent manner within thirty-six months after the effective date of final approval by the County of San Diego, following all appeals. Failure to utilize the permit within thirty-six months will automatically void the permit unless an Extension of Time has been granted. Any such

Extension of Time must meet all the County of San Diego requirements and applicable guidelines in effect at the time the extension is considered by the appropriate decision maker.

2. No permit for the construction, occupancy or operation of any facility or improvement described herein shall be granted, nor shall any activity authorized by the Permit be conducted on the premises until:

- a. The Permittee signs and returns the Permit to San Diego County; and
- b. The Permit is recorded in the Office of the San Diego County Recorder.

3. Unless this Permit has been revoked by the County of San Diego the property included by reference within this Permit shall be used only for the purposes and under the terms and conditions set forth in this Permit unless otherwise authorized by the County of San Diego and the City of San Diego.

4. This Permit is a covenant running with the subject property and shall be binding upon the Permittee and any successor or successors, and the interests of any successor shall be subject to each and every condition set out in this Permit and all referenced documents.

5. The utilization and continued use of this Permit shall be subject to the regulations of this and any other applicable governmental agency.

6. Issuance of this Permit by the County of San Diego does not authorize the Permittee for this permit to violate any Federal, State or City laws, ordinances, regulations or policies including, but not limited to, the Endangered Species Act of 1973 [ESA] and any amendments thereto (16 U.S.C § 1531 et seq.).

7. In accordance with authorization granted to the City of San Diego from the United States Fish and Wildlife service [USFWS] pursuant to Section 10(a) of the ESA and by the California Department of Fish and Game [CDFG] pursuant to Fish and Game Code section 2835 as part of the Multiple Species Conservation Program [MSCP], the City of San Diego by concurring in the issuance of this Permit hereby confers upon Permittee the status of Third Party Beneficiary as provided for in Section 17 of the City of San Diego Implementing Agreement [IA], executed on July 16, 1997, and on file at the City Office as Document No. RR-00-18394. Third Party Beneficiary status is conferred upon Permittee by the City: (1) to grant Permittee the legal standing and legal right to utilize the take authorizations granted to the City pursuant to the MSCP within the context of those limitations imposed under this Permit and the IA, and (2) to assure Permittee that no existing mitigation obligation imposed by the County and City of San Diego pursuant to this Permit shall be altered in the future by the City, County, USFWS, or CDFG, except in the limited circumstances described in Sections 9.6 and 9.7 of the IA. If mitigation lands are identified but not yet dedicated or preserved in perpetuity, maintenance and continued recognition of Third Party Beneficiary status by the City is

contingent upon Permittee maintaining the biological values of any and all lands committed for mitigation pursuant to this Permit and of full satisfaction by Permittee of mitigation obligations required by this Permit, as described in accordance with Section 17.1 D of the IA.

8. Before issuance of any building or grading permits, complete grading and working drawings shall be submitted to the City of San Diego for approval. Plans shall be in substantial conformity to Exhibit A. No changes, modifications or alterations shall be made unless appropriate application(s) or amendment(s) to this Permit have been granted.

9. All of the conditions contained in the Permit have been considered and have been determined to be necessary in order to make the findings required for this Permit. It is the intent of the County that the holder of this Permit be required to comply with each and every condition in order to be afforded the special rights which the holder of the Permit is entitled as a result of obtaining this Permit.

In the event that any condition of this Permit, on a legal challenge by the Owner/Permittee of this Permit, is found or held by a court of competent jurisdiction to be invalid, unenforceable, or unreasonable, this Permit shall be void. However, in such an event, the Owner/Permittee shall have the right, by paying applicable processing fees, to bring a request for a new permit without the "invalid" condition(s) back to the discretionary body which approved the Permit for a determination by that body as to whether all of the findings necessary for the issuance of the proposed permit can still be made in the absence of the "invalid" conditions(s). Such hearing shall be a hearing de novo and the discretionary body shall have the absolute right to approve, disapprove, or modify the proposed permit and the condition(s) contained therein.

ENVIRONMENTAL/MITIGATION REQUIREMENTS:

10. Mitigation requirements are tied to the County of San Diego Certified Mitigated Negative Declaration, specifically the Mitigation Monitoring and Reporting Program (MMRP). These conditions are incorporated into the permit by reference or authorization for the project.

11. As conditions of County of San Diego Site Development Permit No. 219697, the mitigation measures specified in the MMRP and outlined in the County of San Diego Mitigated Negative Declaration, City LDR No. 1980, shall be noted on the construction plans and specifications under the heading Environmental/Mitigation Requirements, and incorporated and referenced in the RAW as CEQA/City of San Diego Requirements.

12. The Owner/Permittee shall comply with the MMRP as specified in the Mitigated Negative Declaration, City LDR No. 1980, satisfactory to the City of San Diego Manager and City Engineer. Prior to issuance of the first grading permit, all conditions of the MMRP shall be adhered to and noted on the grading plans to the satisfaction of the City

of San Diego Engineer, the Senior Planner of the City of San Diego Mitigation Monitoring Coordination (MMC) section. All mitigation measures as specifically outlined in the MMRP shall be implemented for the following areas:

- a. Biological Resources
- b. Paleontological Resources
- c. Noise
- d. Air Quality

13. Sixty-days prior to issuance of the grading permit, a preconstruction meeting shall be scheduled with the County of San Diego Local Enforcement Agency (LEA), Senior Planner of City of San Diego MMC, City of San Diego LEA, and project Biologist to review and coordinate implementation of the MMRP and RAW.

14. Prior to issuance of any construction permit, the applicant shall pay the Long Term Monitoring Fee in accordance with the Development Services Fee Schedule to cover the City's costs associated with implementation of permit compliance monitoring.

ENGINEERING REQUIREMENTS:

15. The drainage system proposed for this development, as shown on the approved plans, is subject to approval by the City of San Diego City Engineer.

16. Prior to the issuance of any construction permits, the applicant shall submit a Storm Water Pollution Prevention Plan (SWPPP) and a Water Quality Technical Report. The reports shall be prepared in accordance with the City of San Diego Storm Water Standards.

17. Prior to the issuance of any construction permits, the applicant shall obtain a bonded grading permit from the City of San Diego City Engineer for the grading proposed for this project. All grading shall conform to the requirements of the City of San Diego Municipal Code in a manner satisfactory to the City Engineer.

18. Prior to approval of engineering as-built plans and bond release, the applicant shall process an Irrevocable Offer to Dedicate (IOD) 26 feet of right of way (a total of 46 feet from center line to the future right-of-way) along the Cactus Road frontage, all satisfactory to the City Engineer.

LANDSCAPE REQUIREMENTS:

19. Prior to issuance of any City of San Diego engineering permits, all landscaping plans shall be in accordance with the standards of the landfill, as approved by the City of San Diego LEA.

PLANNING/DESIGN REQUIREMENTS:

20. Future use of this site shall be in accordance with the development regulations of the underlying OMDD-1 Zone and the requirements of the City of San Diego Municipal Code, and approved by the City of San Diego LEA.

21. There shall be compliance with the regulations of the underlying zone(s) unless a deviation or variance to a specific regulation(s) is approved or granted as a condition of approval of this Permit. Where there is a conflict between a condition (including exhibits) of this Permit and a regulation of the underlying zone, the regulation shall prevail unless the condition provides for a deviation or variance from the regulations. Where a condition (including exhibits) of this Permit establishes a provision which is more restrictive than the corresponding regulation of the underlying zone, then the condition shall prevail.

22. Any future requested amendment to this Permit shall be reviewed by the City and County of San Diego, for compliance with the regulations of the underlying zone(s), conditions of this Permit, and the City of San Diego Municipal Code, which are in effect on the date of the submittal of the requested amendment.

LOCAL ENFORCEMENT AGENCY REQUIREMENTS:

23. In accordance with California Code of Regulations (CCR), Title 27 § 21100 and 21190(c), the City of San Diego LEA has authority over the post-closure activities at this disposal site. All proposed post-closure land uses, other than non-irrigated open space, shall be submitted to the City of San Diego Development Services, City of San Diego LEA, Regional Water Quality Control Board (RWQCB), and San Diego County Air Pollution Control District. The City of San Diego shall review and approve proposed post-closure land uses if the project involves structures within 1,000 feet of this disposal area, structures on top of the disposal area, modifications to the low permeability layer, or irrigation over the disposal area.

24. Prior to issuance of any City of San Diego engineering permit, the property owner shall be subject to payment of the City of San Diego LEA annual permit fees, in accordance with San Diego Municipal Code § 66.0501.

25. Prior to issuance of any City of San Diego engineering permit, the site shall be designed to discourage unauthorized access by persons and vehicles by using a perimeter barrier or topographical constraints, in accordance with CCR § 20530.

26. Prior to issuance of any City of San Diego engineering permit, covered surfaces of the disposal area shall be designed to promote lateral runoff of precipitation and to prevent ponding, as approved by the City of San Diego LEA. Grades shall be established with sufficient slopes to account for future settlement of the fill surface. Other effective maintenance methods may be allowed by the enforcement agency, in accordance with CCR § 20650.

27. Prior to issuance of any City of San Diego engineering permit, the owner shall prepare a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions as approved by the City of San Diego LEA. All other aspects of the disposal site shall be kept in a state of reasonable repair in accordance with CCR § 20750.

Prior to issuance of any City of San Diego engineering permits, the design shall ensure that leachate is controlled to prevent contact with the public, as approved by the City of San Diego LEA, in accordance with CCR § 20790.

29. Prior to issuance of any City of San Diego engineering permits, the drainage system shall be designed to ensure integrity of roads, structures, to prevent safety hazards, and to prevent exposure of waste as approved by the City of San Diego LEA in accordance with CCR § 20820.

30. In accordance with CCR § 20830, at all times litter shall be controlled and maintained on-site by the property owner. Litter shall be routinely collected and disposed of properly. Windblown materials shall be controlled to prevent injury to the public and personnel. Controls shall prevent the accumulation, or off-site migration, of litter in quantities that create a nuisance or cause other problems as approved by the City of San Diego LEA.

FINDINGS

SITE DEVELOPMENT PERMIT FINDINGS – CITY OF SAN DIEGO MUNICIPAL CODE SECTION 126.0504

A. Findings for all Site Development Permits Section 125.0504(a): A Site Development Permit may be approved or conditionally approved only if the decision maker makes all of the *findings* in Section 126.0504(a) and the supplemental *findings* in Section 126.0504(b) through (m) that are applicable to the proposed *development* as specified in this section.

1. The proposed development will not adversely affect the applicable land use plan;

The easterly portions of the site are located in an area designated for Industrial Parks. The remainder of the property is designated as Open Space in conformance with the Multiple Habitat Conservation Program. The proposed project will not have a negative impact on the community plan. Following project completion, the capped landfill area will remain as open space. The project consists of temporary construction activities for

landfill closure, with post-closure monitoring, and does not propose any change in the current land use.

2. The proposed development will not be detrimental to the public health, safety and welfare; and

The proposed project will close a landfill, which will prevent future exposure to uncontained landfill waste and improve public health, safety and welfare conditions. Landfill closure activities will be conducted pursuant to the requirements of CCR Title 27 requirements for landfill closure, ensuring that potential risks to the public are prevented during closure activities. After closure of the site, the project area will remain as open space and be monitored for the effectiveness of the containment.

3. The proposed development will comply with the applicable regulations of the Land Development Code.

The project complies with Chapter 10 Article 3 Division 11 land use designation requirements in accordance with the Otay Mesa Development District OMDD-I Zone; Chapter 12 Article 6 requirements for processing of site development permits, and Chapter 14 Article 3 requirements regarding environmentally sensitive lands. The appropriate findings have been made for deviations from the environmentally sensitive lands standard regulations. No further Land Development Code regulations are applicable.

B. Supplemental Findings—Environmentally Sensitive Lands 126.0504(b): A Site Development Permit required in accordance with Section 143.0110 because of potential impact to *environmentally sensitive lands* may be approved or conditionally approved only if the decision maker makes the following supplemental *findings* in addition to the *findings* in Section 126.0504(a):

1. The site is physically suitable for the design and siting of the proposed development and the development will result in minimum disturbance to environmentally sensitive lands;

The current (pre-project) physical conditions of the site are those of an unclosed landfill. The proposed closure design presented in the RAW was developed specifically to minimize the disturbance of environmentally sensitive lands. The potential project impacts to sensitive lands will be mitigated by onsite revegetation and enhancement of habitats, with mitigation monitoring and success assurance guarantees, and onsite preservation of habitats. After construction, the site will remain as open-space.

- 2. The proposed development will minimize the alteration of natural land forms and will not result in undue risk from geologic and erosional forces, flood hazards, or fire hazards;**

The project designed according to CCR Title 27 to adequately contain the landfill waste, as described in the RAW. A geotechnical evaluation of the major slope was performed, which resulted in selection of a buttress fill design to provide a satisfactory factor of safety in accordance with regulatory requirements. A hydrology study was performed to identify peak runoff and runoff flows that form the basis of the drainage design. The project drainage design includes features to minimize risk from erosion and flood. The project does not propose the addition of any structures that would be exposed to the risk of fire hazards.

- 3. The proposed development will be sited and designed to prevent adverse impacts on any adjacent environmentally sensitive lands;**

The project will be confined to the Sesi property, and will remain as open space. The project has been designed to ensure proper drainage to prevent off-site impacts to Spring Creek, and to minimize the potential for erosion from the constructed slopes. Revegetation efforts will enhance habitats on the site, and removal of invasive species in the enhancement area would be a benefit to surrounding habitats. No off-site adverse impacts to adjacent environmentally sensitive lands are anticipated.

- 4. The proposed development will be consistent with the City of San Diego's Multiple Species Conservation Program (MSCP) Subarea Plan;**

The project is located within the City of San Diego Multiple Habitat Planning Area, which requires mitigation for impacts to non-native grasslands, Diegan Coastal sage scrub, Maritime succulent scrub, Southern willow scrub and disturbed riparian scrub. There is sufficient land on the project site to mitigate for impacts to upland habitats and to meet the overall 90% preservation goal of the MHPA. Impacts to riparian habitats will be mitigated at a ratio of 2:1 by creation and enhancement of riparian habitat on the project site and immediately downstream. Maintenance and monitoring will also be performed to ensure revegetation success.

- 5. The proposed development will not contribute to the erosion of public beaches or adversely impact local shoreline sand supply; and**

The project is located approximately 8.5 miles inland from the nearest shoreline, and does not propose any use that would impact the shoreline or sand supplies.

- 6. The nature and extent of mitigation required as a condition of the permit is reasonable related to, and calculated to alleviate, negative impacts created by the proposed development.**

The proposed project provides improvement over the existing conditions in the landfill area. The proposed project will mitigate for potential impacts to biological resources, water quality, air quality, noise and cultural resources that may be caused by the temporary construction activities related to the closure of a landfill. The majority of these impacts will be mitigated by construction-phase monitoring and best management practices during project implementation.

C. Supplemental Findings—Environmentally Sensitive Lands Deviations 126.0504(c):

A Site Development Permit required in accordance with Section 143.0110 because of potential impacts to *environmentally sensitive lands* where a deviation is requested in accordance with Section 143.0150 may be approved or conditionally approved only if the decision maker makes the following supplemental *findings* in addition to the *findings* in Section 126.0504(a) and the supplemental *findings* in Section 126.0504(b). The deviations are for development that proposes encroachment into Sensitive Biological Resources in accordance with Section 143.0141:

- 1. There are no feasible measures that can further minimize the potential adverse effects on environmentally sensitive lands; and**

The area of project impact is prescribed by the area that is currently impacted by landfilled waste, and the specific requirements of the State of California regulations to adequately isolate this waste from the environment. No reduction of impact area is feasible. All impacts to sensitive lands will be mitigated by onsite revegetation and enhancement of habitats, with mitigation monitoring and success assurance guarantees. After construction, the site will remain as open-space, and no development will occur under this Permit. There are therefore no measures that would reduce further the potentially adverse effects on environmentally sensitive lands.

- 2. The proposed deviation is the minimum necessary to afford relief from special circumstances or conditions of the land, not of the applicant's making.**

The project impact area encroachment into environmentally sensitive lands is the minimum necessary to allow adequate closure of the site. The existing condition of the land and statutory requirements for clean-up levels dictate that construction activities occur within environmentally sensitive lands, and no further reduction of impact is feasible.

Findings Required for approval of City of San Diego Site Development Permit: Before any use permit except those filed pursuant to Regional Land Use Policy 3.8 may be granted or modified, it shall be found:

a. That the location, size, design, and operating characteristics of the proposed use will be compatible with adjacent uses, residents, buildings, or structures, with consideration given to:

1. Harmony in scale, bulk, coverage and density;

The principles of scale, bulk, coverage and density apply to the development of manmade buildings and structures. This project does not propose the construction of any buildings or structures. The project will consist of grading of the land surface and application of a soil cover system with revegetation, and therefore will not interfere with these qualities of the surrounding area.

2. The availability of public facilities, services and utilities;

This project will not require the use of public facilities, services, or utilities. The post-closure use of this site will be solely for open space.

3. The harmful effect, if any, upon desirable neighborhood character;

The post-closure (post-construction) use for this site will continue the existing open space land use of the site, and therefore the land use will not change, and community character will not be affected. The project will have no harmful effect. The project will result in proper containment and closure of a landfill. The present unclosed landfill condition presents a potential threat to water quality and community health and safety.

4. The generation of traffic and the capacity and physical character of surrounding streets;

The project will generate temporary construction traffic in the form of truck trips to transport fill material and equipment. The construction phase is anticipated to last 3 to 4 months. After construction, the site will remain as open space. The only traffic associated with use will be associated with monitoring activities, which can be anticipated to generate on average one to two trips per month. No significant traffic will be generated as a result of this project, and no significant impact to the physical character of surrounding streets will occur.

5. The suitability of the site for the type and intensity of use or development which is proposed; and to

The project proposes the closure and monitoring of a landfill as remediation for impacts from the waste. The project will return to its current state of open space post-closure, and therefore the "intensity" of use will remain the same and be suitable for the site.

6. Any other relevant impact of the proposed use; and

No other relevant impacts exist for this site. The project is intended to remediate a potential environmental hazard related to the landfilled waste and return the site to a near-original condition. No conflicts with land use planning or environmental regulations will occur as a result of this project.

b. That the impacts, as described in paragraph "a" of this section, and the location of the proposed use will be consistent with the San Diego County General Plan.

The project is located within the City of San Diego, and therefore no San Diego County General Plan designation or regulations exist for the site. The project does comply with the City of San Diego's General Plan, and no conflict with land use planning exists.

c. That the requirements of the California Environmental Quality Act have been complied with.

A Mitigated Negative Declaration for the Sesi Property Landfill Closure has been prepared in accordance with the California Environmental Quality Act (CEQA) Guidelines §15070 et seq. It has been determined that all potential project impacts have been mitigated below a level of significance with the mitigation measures described in the Initial Study prepared for this project.

APPROVED by the County San Diego Department of Environmental Health on _____

By _____

The City of San Diego hereby concurs in the issuance of this permit and hereby confers upon Permittee Third Party Beneficiary status as described in Condition number 7 in this Permit.

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The undersigned Permittee, by execution hereof, agrees to each and every condition of this Permit and promises to perform each and every obligation of Permittee hereunder.

[NAME OF COMPANY]

Owner/Permittee

By_____

By_____

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE, OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.)
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYORS ACT.
- IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
4. IMPORTANT NOTICE: SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TWO WORKING DAYS BEFORE YOU DIG:
- | | | | |
|---------------------------|----------------|-------------------------|----------------|
| UNDERGROUND SERVICE ALERT | 1-800-442-4133 | BUILDING AND IRRIGATION | 1-800-442-4133 |
| WATER AND SEWER | 1-800-442-4133 | CABLE TELEVISION | 1-800-442-4133 |
| COMMUNICATION DIVISION | 1-800-442-4133 | | |
5. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT GRADING AND CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD
6. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT-ISSUING AUTHORITY.
7. ALL EXISTING AND/OR PROPOSED PUBLIC UTILITY SYSTEM AND SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 144.0240 OF THE MUNICIPAL CODE.
8. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.
9. THE CONTRACTOR SHALL HIRE A "QUALIFIED PERSON", WHO HAS BEEN TRAINED TO CONDUCT INSPECTIONS AND PREPARE REPORTS OF THE CONSTRUCTION SITE WITH RESPECT TO THE CITY'S MUNICIPAL CODE/ORDINANCES AND THE SWPPP. THE QUALIFIED PERSON SHALL ATTEND THE PRE-CONSTRUCTION MEETING. THE QUALIFIED PERSON SHALL HAVE KNOWLEDGE AND TRAINING OF THE INTENT AND ENFORCEMENT OF SWPPP'S AND BMP'S.
10. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE AND MAKE IT AVAILABLE TO THE CITY OF SAN DIEGO AND REGIONAL WATER QUALITY CONTROL BOARD'S (RWQCB) REPRESENTATIVES UPON REQUEST.
11. THE QUALIFIED PERSON SHALL CONDUCT REGULAR INSPECTIONS OF THE PROJECT SITE IN ACCORDANCE WITH RECOMMENDATIONS OUTLINED IN THE SWPPP. EACH INSPECTION SHALL BE DOCUMENTED IN THE FORM OF WRITTEN REPORTS RETAINED ON-SITE. ALL REPORTS SHALL BE MADE AVAILABLE TO THE CITY OF SAN DIEGO AND RWQCB REPRESENTATIVES UPON REQUEST.
12. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORSEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER AND SEWER UTILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

SEE SHEET 2

GRADING AND GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION ENTITLED "GEOTECHNICAL REPORT, SESI PROPERTY CLOSURE PROJECT, OTAY MESA, SAN DIEGO, CALIFORNIA" PREPARED BY ENV AMERICA INCORPORATED, DATED JULY 1996.
2. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.
3. AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED SOILS REPORT, OR IF REQUIRED, AN AS-GRADED SOILS AND GEOLOGICAL REPORT WILL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO TECHNICAL GUIDLINES FOR GEOTECHNICAL REPORTS. THE FINAL "AS-GRADED" GEOTECHNICAL REPORT WILL BE SUBMITTED TO THE FIELD ENGINEERING SECTION OF PUBLIC WORKS AND A SECOND COPY TO THE GEOLOGY SECTION OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT WITHIN 15 DAYS OF THE COMPLETION OF GRADING. WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT OR PROJECT PLANS, REPORTS OR SPECIFICATIONS, THE FINAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A CALIFORNIA CERTIFIED ENGINEERING GEOLOGIST.
4. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CITY ENGINEER AND THE GEOLOGY SECTION OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.
5. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATION OUTLINED IN THE REFERENCED SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION PREPARED FOR THIS DEVELOPMENT.

S. SHARIAR SHAHIN R.C.E. 42940 Date

DANIEL J. GIFFORD C.E.G. 1959 Date

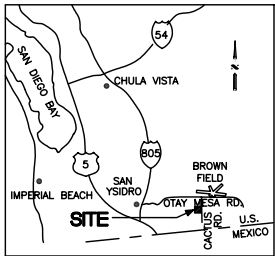
*Company Name ENV AMERICA INCORPORATED
Phone No. 949-453-9191

6. FOR SOILS FILE SEE CITY RECORD S. S-420058

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	SHEET NUMBER REVISED OR ADDED THIS CHANGE

UNITED STATES DISTRICT COURT COORDINATING COMMITTEE
SESI PROPERTY CLOSURE PROJECT
CITY OF SAN DIEGO, CALIFORNIA



VICINITY MAP - NO SCALE

ESTIMATED GRADING QUANTITIES

EXCAVATION	34,100 CY	NOTE: FOR PERMITTING PURPOSES ONLY. BID SHALL BE BASED ON CONTRACTORS OWN ESTIMATED QUANTITIES.
FILL	40,900 CY	
NET (IMPORT)	(6,800) CY	

EROSION CONTROL NOTES

SEE SHEET 13

REFERENCE DRAWINGS

30444-D 31273-D

SITE ADDRESS

1902 CACTUS ROAD, SAN DIEGO, CALIFORNIA

TOPOGRAPHY SOURCE

TOPOGRAPHY FROM AERIAL PHOTOGRAMMETRIC SURVEY BY ZENITH AERIAL, INC. 10/12/94

BENCHMARK

ELEVATIONS ARE BASED ON CITY OF SAN DIEGO BENCHMARK AT S.W. CORNER OF I-905 (OTAY MESA RD.) AND CACTUS RD., A BRASS PLUG TOP OF CURB ON OTAY MESA RD., ELEVATION IS 508.579 FEET MSL.

COORDINATES SHOWN ARE BASED ON THE CALIFORNIA SYSTEM ZONE 6, 1983 NORTH AMERICAN DATUM. THE BASIS OF BEARINGS INCLUDES CITY OF SAN DIEGO RECORD OF SURVEY 14492, POINT NUMBER #1408, COORDINATES N1,787,207.18 E6,336,847.17, A BRASS DISK IN A MONUMENT WELL AT THE INTERSECTION OF OTAY MESA ROAD AND BRITANNIA BLVD., AND POINT NUMBER #1471, COORDINATES N1,784,537.89 E6,334,175.77, A 0.75" IRON PIPE WITH BRASS TAG IN DIRT S.E. OF INTERSECTION AIRWAY RD. AND CACTUS RD. THE BEARING BETWEEN THE POINTS IS S45°01'21"W.

GRADING NOTES

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE, 2000 EDITION.
2. PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OR THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS, UNLESS OTHERWISE SHOWN ON THESE PLANS.
3. GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 CALENDAR DAYS SHALL BE TEMPORARILY REVEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

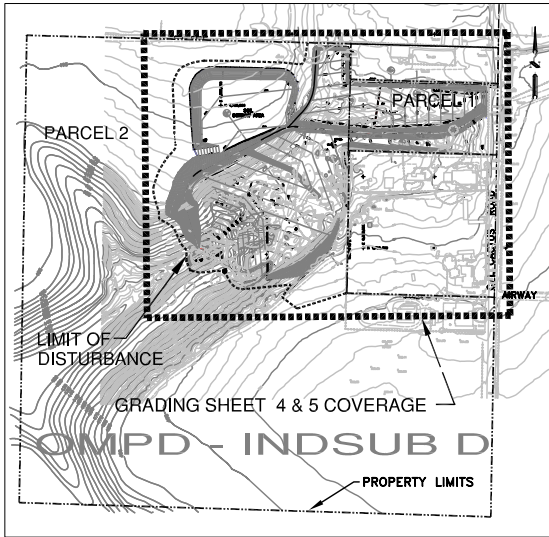
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

SHAHRIAR SHAHIN R.C.E. 42940
MY REGISTRATION EXPIRES 3/2004

DATE

ENV
AMERICA
ENVIRONMENTAL ENGINEERING,
CONSULTING & CONSTRUCTION

16 TECHNOLOGY DRIVE
SUITE 154
IRVINE, CALIFORNIA 92618
PHONE 949-453-9191
FAX 949-453-9292



KEY MAP - SCALE - 1"=250'

OWNER / APPLICANT

SALIM.D. SESI ET. AL. (MULTIPLE OWNERS)
C/O SESI GROUP, 1950 TOWNSEND PLACE, EL CAJON, CA 92019

LEGAL DESCRIPTION

PARCEL 1: THE SE 1/4 OF THE NW 1/4 OF SEC 33/T18S/R1W OF SAN BERNARDINO BASE AND MERIDIAN EXCEPTING THE EAST 414 FT OF THE NORTH 800 FT.

PARCEL 2: THE S'LY 200 FT OF THE N'LY 300 FT OF THE EAST 414 FT OF THE SE 1/4 OF THE NW 1/4 OF SEC 33/T18S/R1W OF SAN BERNARDINO BASE AND MERIDIAN.

ASSESSOR'S PARCEL NO.

646-100-49, 646-100-59, 646-100-70 ACCORDING TO MAP ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, STATE OF CALIFORNIA.

STREET DESIGN DATA TABLE

STREET NAME	CLASSIFICATION	DESIGN SPEED	FUTURE ADT	R.O.W. WIDTH
CACTUS RD	4 LANE COLLECTOR	45 MPH	12,000	92'

SHEET INDEX

SHEET	DESCRIPTION
1	TITLE SHEET AND KEY MAP
2	SPECIAL AND CONSTRUCTION NOTES
3	EXISTING TOPOGRAPHY AND SITE IMPROVEMENTS
4	REVEGETATION PLAN
5	FINAL COVER GRADING PLAN
6	DRAINAGE CHANNEL "A" PLAN AND PROFILE
7	LANDFILL CLOSURE CROSS-SECTIONS
8	SLOPE BUTTRESS FILL AND LIQUID COLLECTION SYSTEM
9	FINAL COVER DETAILS
10	DRAINAGE DETAILS
11	ENVIRONMENTAL MONITORING AND CONTROL SYSTEM DETAILS
12	PLANS AND PROFILES FOR STORM DRAIN LATERAL "A-1", LINE "B"
13	EROSION AND SEDIMENT CONTROL PLAN
14	EROSION AND SEDIMENT CONTROL DETAILS

PERMIT DESIGN, NOT FOR CONSTRUCTION

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS

1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2000 EDITION), INCLUDING THE REGIONAL AND CITY OF SAN DIEGO SUPPLEMENT AMENDMENTS DOCUMENT No. 769845, FILED JULY 21, 2000.
2. 1999 STANDARD SPECIAL PROVISIONS FOR SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS OF CITY OF SAN DIEGO. DOCUMENT No. 769842, FILED OCT 22, 1999.
3. "CALIFORNIA DEPARTMENT OF TRANSPORTATION, MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES", (1999 EDITION), DOCUMENT NO. 769843, FILED JAN 24,2000.

STANDARD DRAWINGS

1. CITY OF SAN DIEGO STANDARD DRAWINGS, INCLUDING ALL REGIONAL STANDARD DRAWINGS, DOCUMENT No.769846, FILED JULY 21, 2000.

LEGEND

ITEM	STD. DWG.	SYMBOL
PROPERTY BOUNDARY		---
MAJOR EXISTING CONTOUR (5 feet interval)		490
MINOR EXISTING CONTOUR (1 foot interval)		
SPOT ELEVATION (EXISTING GROUND)		x 495.22
EXISTING POWER POLE		PP
EXISTING MONITORING WELL		WS4 MW8 LS2
EXISTING LYSIMETER		
BRUSH LINE		
PRIVATE FENCE	M-5 M-6 M-20	*****
DEPRESSION		
LIMIT OF WASTE WITHIN PROPERTY BOUNDARY		
DAYLIGHT LINE		
SLOPE AS INDICATED		3%
SURFACE GRADIENT		
MAJOR PROPOSED CONTOUR (5 feet interval)		485
MINOR PROPOSED CONTOUR (1 foot interval)		481
PROPOSED DRAINAGE	B 9/5 E 9/5 F 9/5	D-75
TOP OR TOE OF SLOPE		
PRIVATE HDPE STORM DRAIN	A 12/5 B 12/5	
PRIVATE STORM DRAIN INLET APRON		D-39
PRIVATE STORM DRAIN STRAIGHT HEADWALL		D-30
PTIVATE ASPHALT CONCRETE DOWNDRAIN		D-22
PRIVATE GRAVEL-PAVED SURFACE	A 9/5	

ENGINEERING PERMIT NO. _____

PRIVATE CONTRACT

GRADING AND IMPROVEMENT PLANS FOR:

SESI PROPERTY CLOSURE PROJECT

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 1 OF 14 SHEETS	V.O. NO. 420058
FOR CITY ENGINEER	DATE
DESCRIPTION	BY
ISSUED FOR RAW	ENV AMERICA
	MLR
	FEB 2005
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	31928-1-D

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR REGARDING THE INTENT OF THE DESIGN AND TO THE SPECIAL CONSIDERATIONS FOR CLOSURE OF THE LANDFILL. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE HELD RESPONSIBLE FOR THEIR ENFORCEMENT.

1. CLOSURE CONSTRUCTION SHALL CONFORM WITH CALIFORNIA CODE OF REGULATIONS TITLE 27.
2. THESE CLOSURE CONSTRUCTION PLANS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND QUALITY ASSURANCE/QUALITY CONTROL PLAN PREPARED FOR CLOSURE CONSTRUCTION AT THE SITE.
3. THERE ARE EXISTING OVERHEAD UTILITIES LINES WITHIN THIS PROJECT.
4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING GROUNDWATER MONITORING WELLS, UTILITIES, FENCING AND OTHER STRUCTURES AT THE SITE.
5. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
6. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING THE CONSTRUCTION MANAGER. PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, ENGINEER, QA/QC CONSULTANT, CONSTRUCTION MANAGER. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THIS MEETING
7. THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER WASTE IN AREAS OF EXCAVATION WITHIN THE SITE. PRIOR TO EXCAVATION THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT A FIELD EVALUATION CAN BE MADE. ONLY AFTER APPROVAL BY THE ENGINEER SHALL WASTE BE EXCAVATED. THE EXCAVATED WASTE SHALL BE HAULED TO ONSITE DISPOSAL AREAS AS SHOWN ON THE PLANS. EXCAVATION, HAULING, PLACEMENT AND COMPACTION OF WASTE, AND USAGE OF DAILY SOIL COVER IN BOTH EXCAVATION AND DISPOSAL AREAS SHALL CONFORM TO THE TECHNICAL SPECIFICATIONS.
8. SHOULD THE CONTRACTOR FIND THAT THE APPROXIMATE REFUSE LIMITS WITHIN THE SITE EXTEND BEYOND THE DESIGNED LANDFILL FINAL COVER LIMITS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR ASSESSMENT OF ADDITIONAL REMOVALS, MODIFICATION OF COVER GRADES AND/OR RELOCATION OF FILL KEYS.
9. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO PLACING FILL.
10. PRIOR TO STOCKPILING OF EXCESS MATERIAL, STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER.
11. THE ENGINEERING GEOLOGIST SHALL PERFORM PERIODIC INSPECTIONS OF THE BUTTRESS KEY AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE EXCAVATION.
12. THE ENGINEER, ENGINEERING GEOLOGIST, AND QA/QC CONSULTANT SHALL PERFORM SUFFICIENT OBSERVATION AND BE AVAILABLE DURING GRADING AND CONSTRUCTION TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND THE CODE WITHIN THEIR PURVIEW.
13. THE ENGINEER SHALL BE AVAILABLE DURING GRADING TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CODE AND ANY SPECIAL CONDITIONS OF THE PERMIT WITHIN THE PURVIEW.
14. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES.
15. ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN UNTIL ALTERNATE FACILITIES TO HANDLE STORM WATER ARE APPROVED AND FUNCTIONAL; HOWEVER, IN ANY CASE, THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING NECESSARY SEDIMENT AND EROSION CONTROL MEASURES WITHIN THE LIMITS OF WORK FOR THE DURATION OF CONSTRUCTION.

CONSTRUCTION NOTES

- (A) ABANDON WELLS AND LYSIMETERS PRIOR TO GRADING AS PER SPECIFICATIONS
- (B) PROTECT IN-PLACE
- (C) REMOVE AND DISPOSE OFFSITE
- (D) SALVAGE AND RELOCATE AS DIRECTED BY THE ENGINEER
- (E) GRADE BORROW AREA TO THE GENERAL LINES AND GRADES FOR SIDE SLOPES AND LEAVE BOTTOM OF EXCAVATION TO DRAIN. ADJUST FINAL SLOPE LOCATIONS AND BOTTOM OF EXCAVATION AS DIRECTED BY THE ENGINEER.
- (F) CONSTRUCT FINAL COVER PER

95A
- (G) CONSTRUCT FINAL COVER FOR FRONT SLOPE PER

95D
- (H) CONSTRUCT ASPHALT CONCRETE SWALE PER

95B
- (I) CONSTRUCT TOE OF SLOPE KEY AND 4' WIDE PERIMETER PERIMETER V-DITCH PER

95E
- (J) CONSTRUCT TOE OF SLOPE KEY AND 3' WIDE V-DITCH PER

95F
- (K) CONSTRUCT MIN. 3.5' HIGH BY 4' WIDE TRAPEZOIDAL CHANNEL "A" PER

105,6A
- (L) CONSTRUCT 1.5' HIGH EARTH BERM PER

95C
- (M) CONSTRUCT 4' WIDE X 3.5' DEEP TRAPEZOIDAL CONCRETE CHANNEL PER SAN DIEGO STD. DWG. D-71.
- (N) CONSTRUCT 10" THICK 2.5' DEEP CUT OFF WALL AT CHANNEL ENDS AND EVERY 10' VERTICAL, PER SAN DIEGO STD. DWG. D-72
- (O) CONSTRUCT GABION AND RIP-RAP STILLING BASIN PER

105,6E
- (P) CONSTRUCT 2.5' HIGH BY 4' WIDE TRAPEZOIDAL CHANNEL "A-2" PER

105B
- (Q) CONSTRUCT 30" DIA HDPE STORM DRAIN LINE "B" PER

125A
- (R) CONSTRUCT STRAIGHT HEADWALL - TYPE A PER SAN DIEGO STD. DWG. D-30
- (S) CONSTRUCT RIP-RAP PER DETAIL ON SHEET 12 AND PER DIMENSIONS SHOWN ON PLANS
- (T) INSTALL 18" HDPE STORM DRAIN PER

125B
- (U) CONSTRUCT EARTH CHANNEL ENTRY PER

105E
- (V) CONSTRUCT ASPHALT CONCRETE DOWNDRAIN PER SAN DIEGO STD. DWG. D-22
- (W) CONSTRUCT BROW DITCH - TYPE A PER SAN DIEGO STD. DWG. D-75
- (X) CONSTRUCT DITCH - TYPE D PER SAN DIEGO STD. DWG. D-75
- (Y) CONSTRUCT 16" HIGH MASONRY CONCRETE UNIT SPLASH WALL
- (Z) MODIFY MONITORING WELL COMPLETIONS PER

115D
- (AA) INSTALL 6' HIGH CHAIN-LINK FENCE WITH GATES PER SAN DIEGO STD. DWGS. M-5, M-6 AND M-20
- (BB) INSTALL SETTLEMENT SURVEY MONUMENT PER

95G
- (CC) CONSTRUCT STORMDRAIN INLET APRON PER SAN DIEGO STD. DWG. D-39
- (DD) CONSTRUCT RISER PIPE SURFACE COMPLETION PER

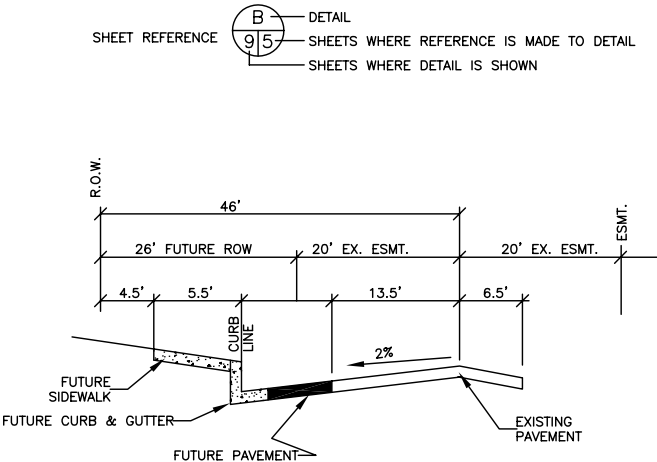
118A
- (EE) CONSTRUCT SUBDRAIN COLLECTION TRENCH PER

118B
- (FF) EXTEND DRAINAGE ROCK/GEOTEXTILE BLANKET TO ELEVATION 440 IN ALL AREAS UP-CANYON OF CENTERLINE AND BELOW BASE OF FOUNDATION LAYER
- (GG) CONSTRUCT CONCRETE ANCHOR BLOCK PER

1212C
- (HH) INSTALL 48" DIA R.C.P. SAN DIEGO STD. DWGS. D-60, D-61 AND D-62

STANDARD ABBREVIATIONS

- BEGIN CURVE
- BEGIN VERTICAL CURVE
- CENTER LINE
- CLEARANCE
- DEPTH
- DIAMETER
- EASEMENT
- ELEVATION
- END CURVE
- END VERTICAL CURVE
- EXISTING
- FINISH GRADE
- FIRE HYDRANT
- FLOW LINE
- GRADE BREAK
- HIGH DENSITY POLYETHYLENE
- HIGH POINT
- INVERT
- LENGTH
- LINEAL FEET
- MAXIMUM
- MINIMUM
- NOMINAL
- POINT OF INTERSECTION
- POINT OF VERTICAL INTERSECTION
- POLYVINYL CHLORIDE
- POWER POLE
- SCHEDULE
- STATION
- STORMWATER POLLUTION PREVENTION PLAN
- RIGHT OF WAY
- TYPICAL
- VERTICAL CURVE
- BC
- BVC
- CL
- CLR.
- D
- DIA.
- ESMT.
- EL. OR ELEV.
- EC
- EVC
- EX.
- FG
- FH
- FL
- G.B.
- HDPE
- H.P.
- INV.
- L
- L.F.
- MAX.
- MIN.
- NOM.
- PI
- PVI
- PVC
- PP
- SCH.
- STA.
- SWPPP
- R.O.W.
- TYP.
- VC



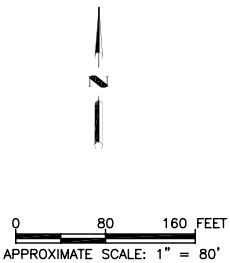
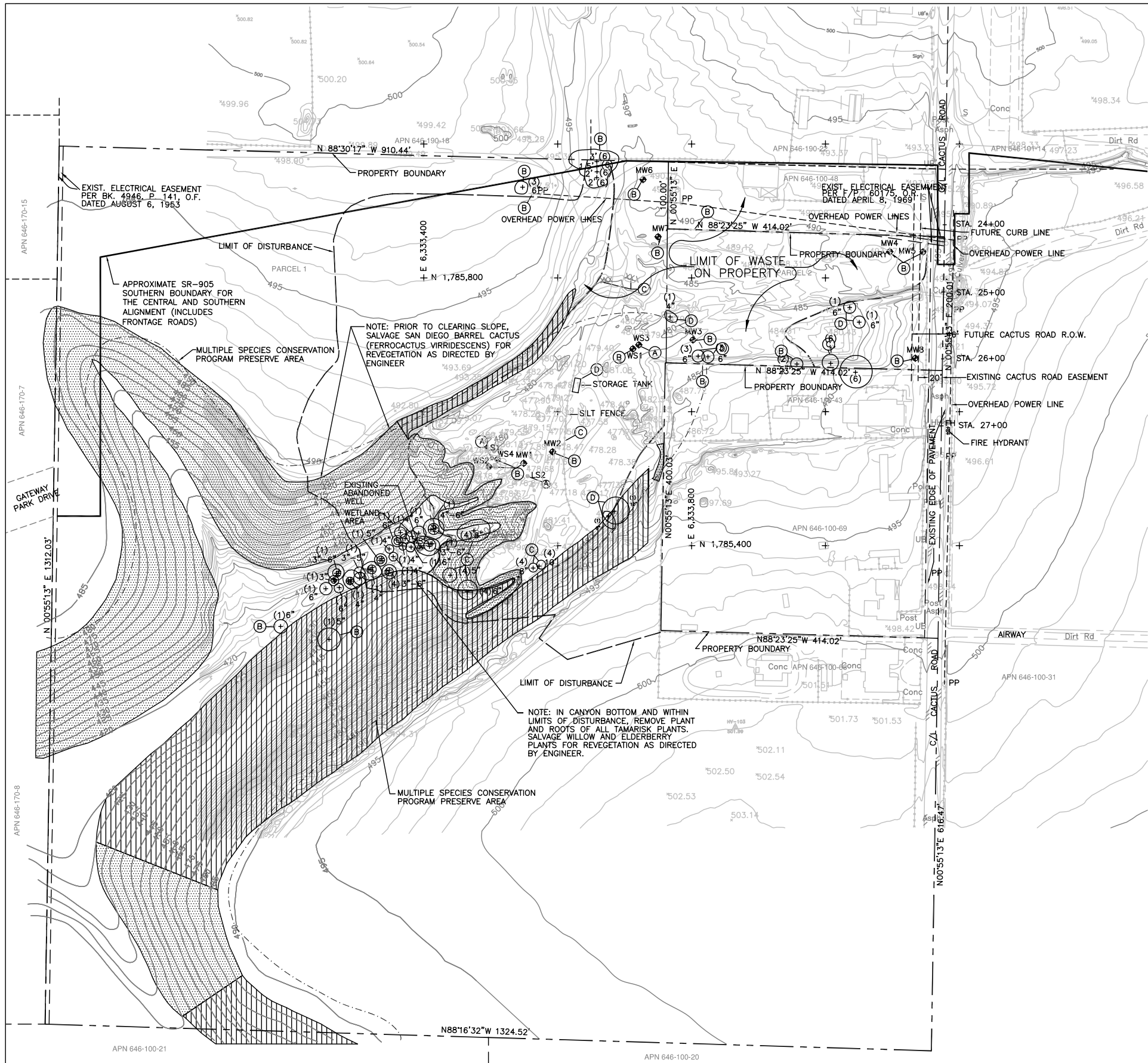
CACTUS ROAD TYPICAL SECTION – NO SCALE

PERMIT DESIGN, NOT FOR CONSTRUCTION



PRIVATE CONTRACT

SPECIAL AND CONSTRUCTION NOTES									
SESI PROPERTY CLOSURE PROJECT									
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 2 OF 14 SHEETS								V.D. NO. 420058	
FOR CITY ENGINEER								DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED					
ISSUED FOR RAV	ENV AMERICA	MLR	FEB 2005					1784 - 6331 NAD 83 COORD.	
								144-1771 LAMBERT COORDINATES	
CONTRACTOR _____								DATE STARTED _____	
INSPECTOR _____								DATE COMPLETED _____	
								31928-2-D	



SLOPE ANALYSIS

- AREA WITH SLOPE LESS THAN TWENTY-FIVE PERCENT (25%) IS 77% (27.2 AC)
- AREA WITH SLOPE TWENTY-FIVE PERCENT (25%) TO THIRTY-FIVE PERCENT (35%) IS 10% (3.7 AC)
- AREA WITH SLOPE GREATER THAN THIRTY-FIVE PERCENT (35%) IS 13.03% (4.6 AC)

EXPLANATION

- APPROXIMATE DRIP LINE
- TRUNK
- APPROXIMATE DRIP LINE
- CLUSTER OF TRUNKS
- TYPE OF TREE
- DIAMETER OF TRUNK

CONSTRUCTION NOTES:

- ABANDON WELL AND LYSIMETERS PRIOR TO GRADING AS PER SPECIFICATIONS
- PROTECT IN-PLACE
- REMOVE AND DISPOSE OFFSITE
- RELOCATE AS DIRECTED BY THE ENGINEER

TYPE OF TREE

SYMBOL	SCIENTIFIC NAME	COMMON NAME
(1)	SALIX SP.	WILLOW
(2)	SCHINUS MOLLE	CALIFORNIA PEPPER TREE
(3)	ACACIA SP.	ACACIA
(4)	TAMARIX SP.	TAMARISK
(5)	SAMBUCUS MEXICANA	MEXICAN ELDERBERRY
(6)	EUCALYPTUS SP.	EUCALYPTUS

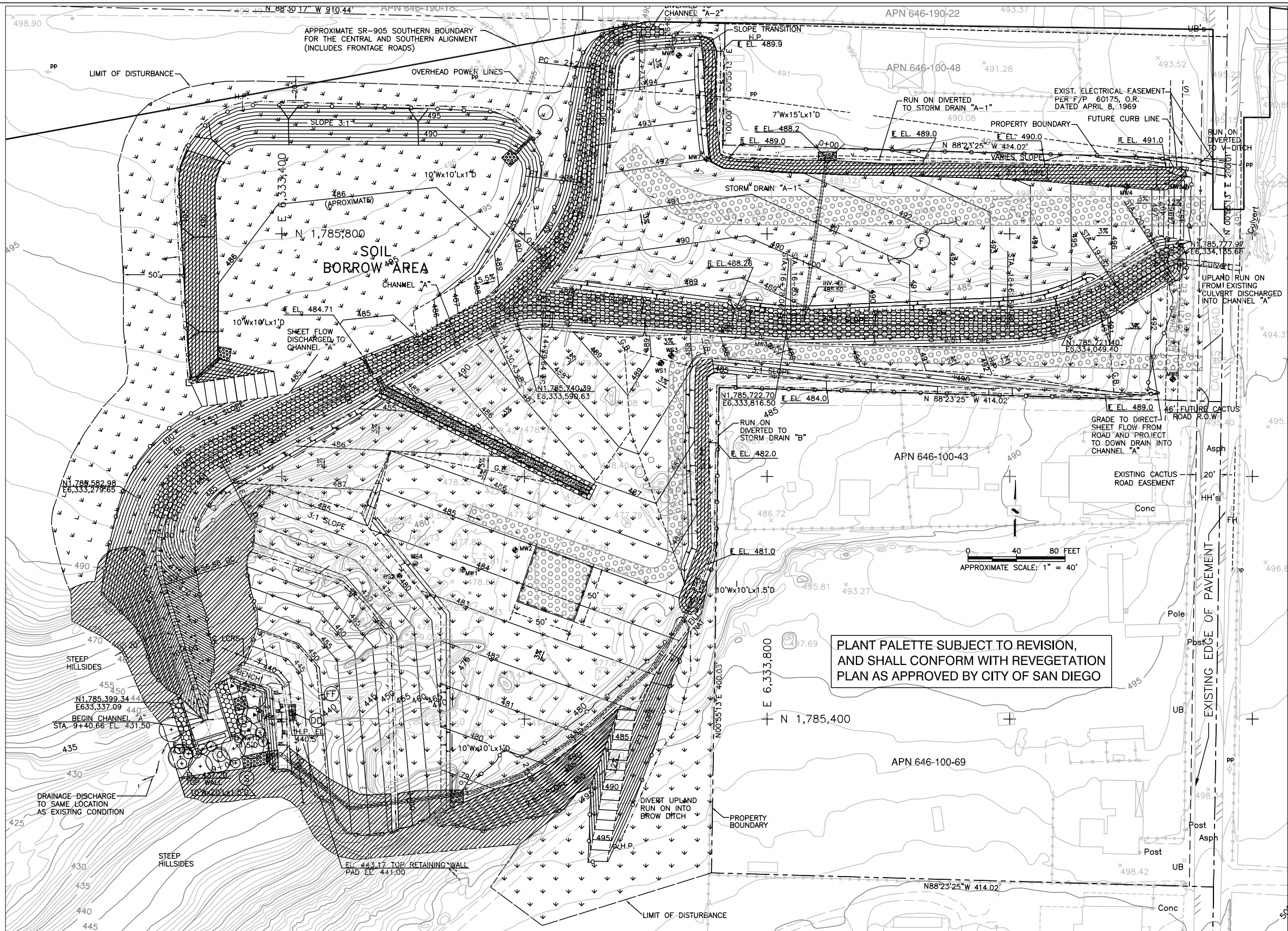
NOTES:

- TOPOGRAPHY IS FROM ZENITH AERIAL, INC. DATE OF PHOTOGRAPHY: 10/12/94
- COUNTY OF SAN DIEGO TOPOGRAPHIC SURVEY, MAY 4, 1978; SHEET 138-1761 USED FOR TOPOGRAPHY IN SOUTHERN AND WESTERN 300' OF PROPERTY SHOWN HEREIN

PRIVATE CONTRACT

EXISTING TOPOGRAPHY AND SITE IMPROVEMENTS:				
BESI PROPERTY CLOSURE PROJECT				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 3 OF 14 SHEETS			W.D. NO. 420058	
FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005	
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	
				1784 - 6331 NAD 83 COORD.
				144-1771 LAMBERT COORDINATES
				31928-3-D

PERMIT DESIGN, NOT FOR CONSTRUCTION



SEEDING MIX		
Native Grassland Seed Mix		
Scientific Name	Common Name	Approximate Pounds of Seed/Acre
Bloomeria crocea	Common Goldenstar	1.0
Bromus carinatus	California Brome	6.0
Dichelostemma capitatum	Blue Dicks	1.0
Encelia californica	California Encelia	2.0
Eschscholzia californica	California Poppy	3.0
Hordeum californicum	California Barley	5.0
Lotus scoparius	Deerweed	3.0
Lupinus bicolor	Miniature Lupine	3.0
Nassella cernua	Nodding Stipa	1.0
Nassella lepida	Foothill Needlegrass	1.0
Nassella pulchra	Purple Needlegrass	3.0
Poa secunda ssp. secunda	Bluegrass	3.0
Sisyrinchium bellum	Blue-Eyed Grass	1.0
Viguiera lacinata	San Diego Sun Flower	3.0
Vulpia microstachys	Zorro Grass	2.0

Sage Scrub Seed Mix		
Scientific Name	Common Name	Approximate Pounds of Seed/Acre
Artemisia californica	California Sagebrush	2.0
Artemisia palmeri	Tall Sagebrush	2.0
Baccharis pilularis	Coyote Brush	0.5
Bromus carinatus	Brome Grass	2.0
Dichelostemma capitatum	Blue Dicks	0.5
Encelia californica	California Encelia	1.0
Ericameria palmeri	Palmer's Goldenbush	0.5
Eriogonum fasciculatum	California Buckwheat	3.0
Eriophyllum confertiflorum	Golden Yarrow	1.0
Eschscholzia californica	California Poppy	1.0
Gnaphalium bicolor	Bicolored Everlasting	0.5
Gnaphalium californicum	California Everlasting	0.5
Helianthemum scoparium	California Rush Rose	1.0
Hordeum californicum	California Barley	1.0
Isocoma menziesii	Coast Goldenbush	2.0
Iva hayesiana	San Diego Poverty Weed	3.0
Lasthenia californica	Goldfields	1.0
Layia platyglossa	Tidy Tips	1.0
Leymus condensatus	Giant Wild Rye	1.0
Lotus scoparius	Deerweed	2.0
Lupinus bicolor	Miniature Lupine	2.0
Lupinus succulentus	Arroyo Lupine	2.0
Malacothamnus fasciculatus	Mesa Bushmallow	1.0
Melica imperfecta	Coast Range Melic	1.0
Muhlenbergia rigens	Deergrass	1.0
Nassella cernua	Nodding Stipa	1.0
Nassella lepida	Foothill Needlegrass	1.0
Nassella pulchra	Purple Needlegrass	3.0
Plantago erecta	Plantain	1.0
Salvia apiana	White Sage	2.0
Salvia mellifera	Black Sage	1.5

HARDSCAPE AREAS	
	RIP-RAP OR GABION
	GRAVEL

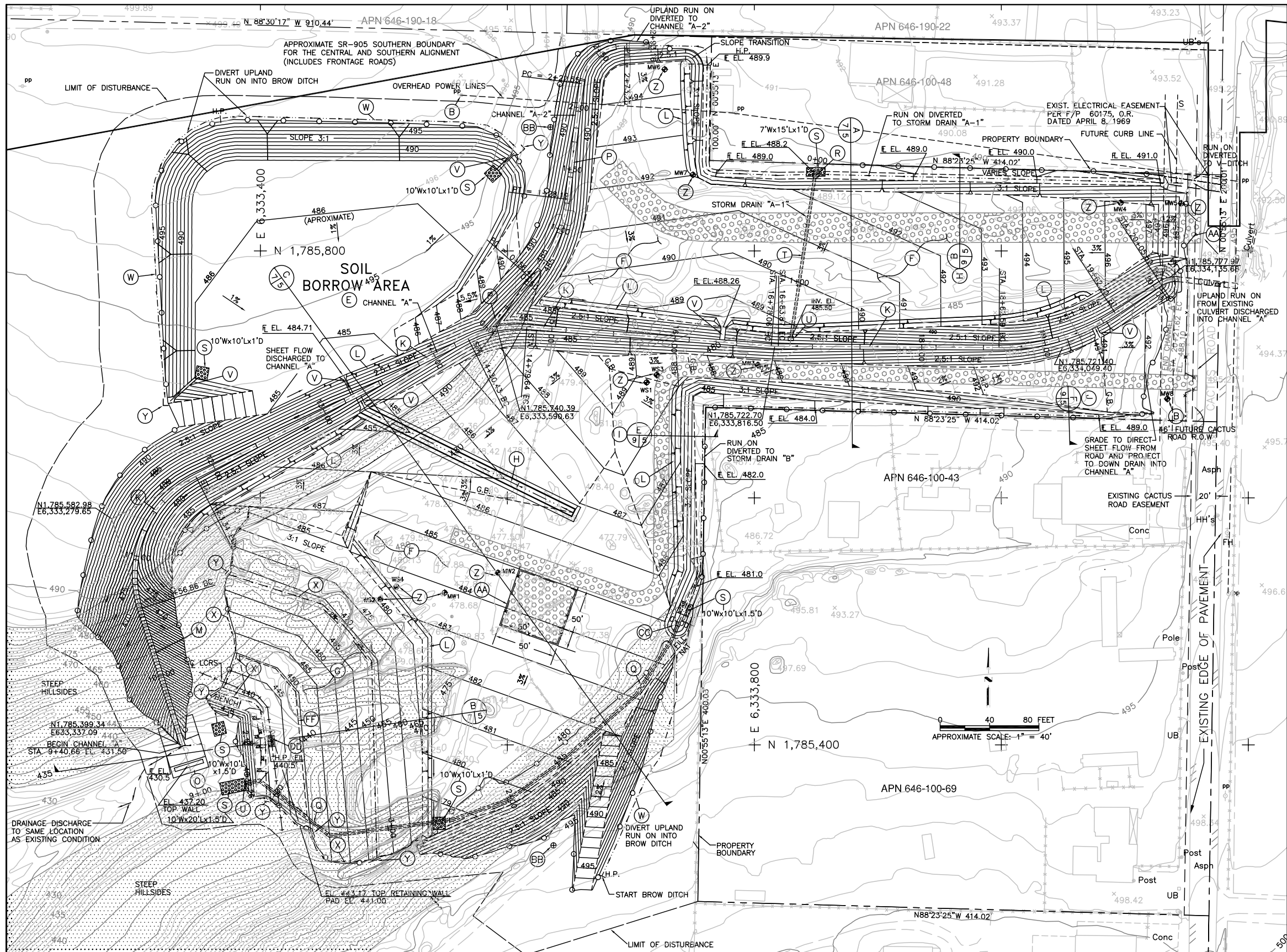
ENVIRONMENTAL ENGINEERING,
CONSULTING & CONSTRUCTION
16 TECHNOLOGY DRIVE
SUITE 154
IRVINE, CALIFORNIA 92618
PHONE 949-453-9191
FAX 949-453-9292

PRIVATE CONTRACT	
REVEGETATION PLAN: SEBI PROPERTY CLOSURE PROJECT	
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 4 OF 14 SHEETS	NO. 420058
FOR CITY ENGINEER	DATE
DESCRIPTION	BY
ISSUED FOR RAV	ENV AMERICA
	MLR
	FEB 2005
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
1784 - 6331 NAD 83 COORD.	
144-1771 LAMBERT COORDINATES	
31928-4-D	

NOTES:
1. TOPOGRAPHY IS FROM ZENITH AERIAL, INC.
DATE OF PHOTOGRAPHY: 10/12/94

CONTAINER PLANTS:	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE
		BACCHARIS GLUTINOSA	MULE FAT	1 GAL
		SALIX GOODINGII	BLACK WILLOW	1 GAL
		SAMBUCUS MEXICANA	MEXICAN ELDERBERRY	5 GAL

PERMIT DESIGN, NOT FOR CONSTRUCTION



LEGEND:

- GRAVEL PAVEMENT
- STEEP HILLSIDES >25%

PERMIT DESIGN, NOT FOR CONSTRUCTION

CONSTRUCTION NOTES:

- PROTECT IN-PLACE
- GRADE BORROW AREA TO THE GENERAL LINES AND GRADES FOR SIDE SLOPES AND LEAVE BOTTOM OF EXCAVATION TO DRAIN. ADJUST FINAL SLOPE LOCATIONS AND BOTTOM OF EXCAVATION AS DIRECTED BY THE ENGINEER.
- CONSTRUCT FINAL COVER PER
- CONSTRUCT FINAL COVER FOR FRONT SLOPE PER
- CONSTRUCT ASPHALT CONCRETE SWALE PER
- CONSTRUCT TOE OF SLOPE KEY AND 4' WIDE PERIMETER PERIMETER V-DITCH PER
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- CONSTRUCT MIN.3.5' HIGH BY 4' WIDE TRAPEZOIDAL CHANNEL "A" PER
- CONSTRUCT 1.5' HIGH EARTH BERM PER
- CONSTRUCT 4' WIDE X 3.5' DEEP TRAPEZOIDAL CONCRETE CHANNEL PER SAN DIEGO STD. DWG. D-71.
- CONSTRUCT GABION AND RIP-RAP STILLING BASIN PER
- CONSTRUCT 2.5' HIGH BY 4' WIDE TRAPEZOIDAL CHANNEL "A-2" PER
- CONSTRUCT 30" DIA PRIVATE HDPE STORM DRAIN LINE "B" PER
- CONSTRUCT STRAIGHT HEADWALL - TYPE A PER SAN DIEGO STD. DWG. D-30
- CONSTRUCT RIP-RAP PER DETAIL ON SHEET 12 AND PER DIMENSIONS SHOWN ON PLANS
- INSTALL 18" PRIVATE HDPE STORM DRAIN PER
- CONSTRUCT EARTH CHANNEL ENTRY PER
- CONSTRUCT ASPHALT CONCRETE DOWNDRAIN PER SAN DIEGO STD. DWG.D-22
- CONSTRUCT BROW DITCH - TYPE A PER SAN DIEGO STD. DWG. D-75
- CONSTRUCT DITCH - TYPE D PER SAN DIEGO STD. DWG. D-75
- CONSTRUCT 16" HIGH MASONRY CONCRETE UNIT SPLASH WALL
- MODIFY MONITORING WELL COMPLETIONS PER
- INSTALL 6' HIGH CHAIN-LINK FENCE WITH GATES PER SAN DIEGO STD. DWGS. M-5, M-6 AND M-20
- INSTALL SETTLEMENT SURVEY MONUMENT PER
- CONSTRUCT STORMDRAIN INLET APRON PER SAN DIEGO STD. DWG. D-39
- CONSTRUCT RISER PIPE SURFACE COMPLETION PER
- EXTEND DRAINAGE ROCK/GEOTEXTILE BLANKET TO ELEVATION 440 IN ALL AREAS UP-CANYON OF CENTERLINE AND BELOW BASE OF FOUNDATION LAYER

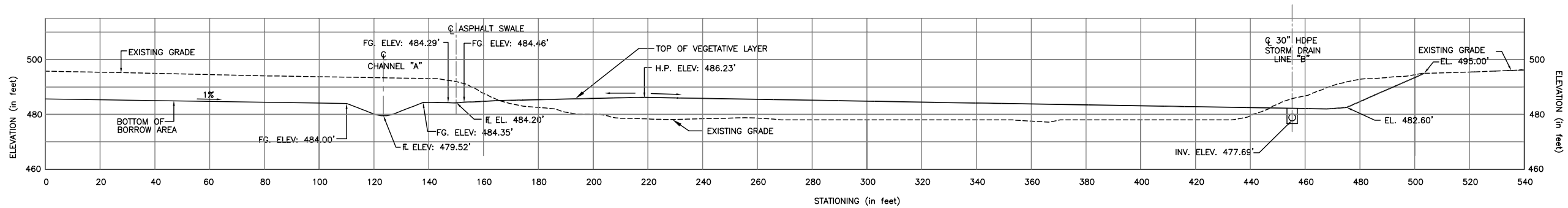
ENV AMERICA

ENVIRONMENTAL ENGINEERING,
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SUITE 154
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PHONE 949-453-9191
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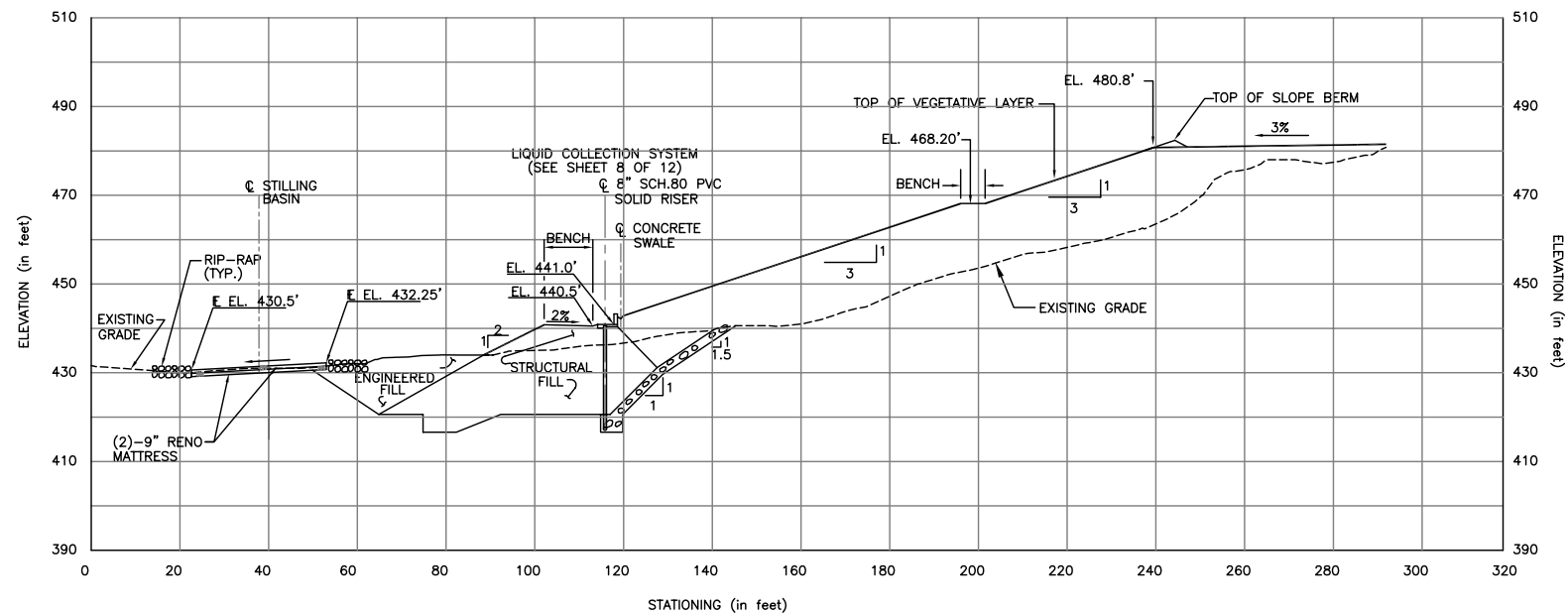


PRIVATE CONTRACT

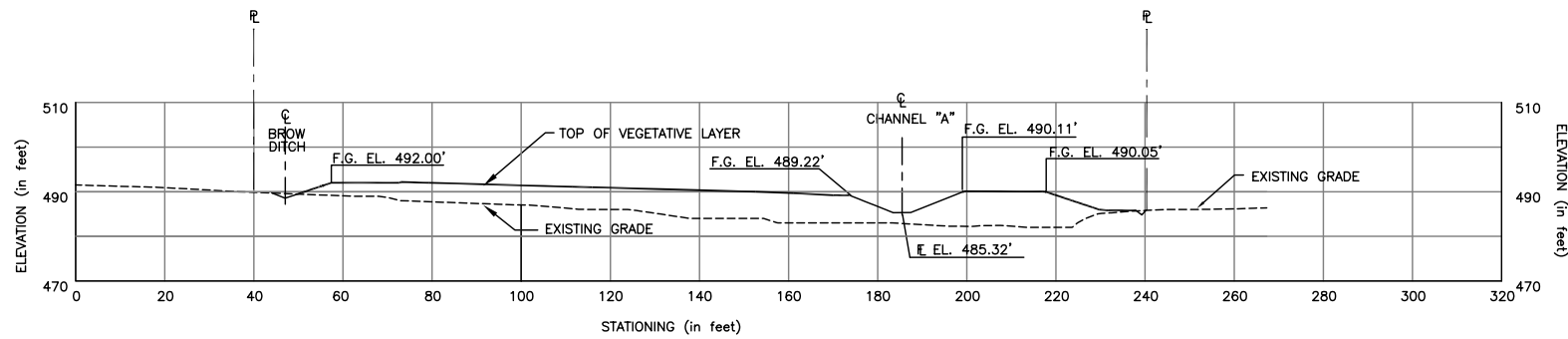
FINAL COVER GRADING PLAN:			
SEBI PROPERTY CLOSURE PROJECT			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 5 OF 14 SHEETS			V.B. NO. 420058
FOR CITY ENGINEER	DATE		
DESCRIPTION	BY	APPROVED	DATE
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			1784 - 6331 NAD 83 COORD.
			144-1771 LAMBERT COORDINATES
			31928-5-D



SECTION C
Scale: 1" = 20'



SECTION B
Scale: 1" = 20'



SECTION A
Scale: 1" = 20'

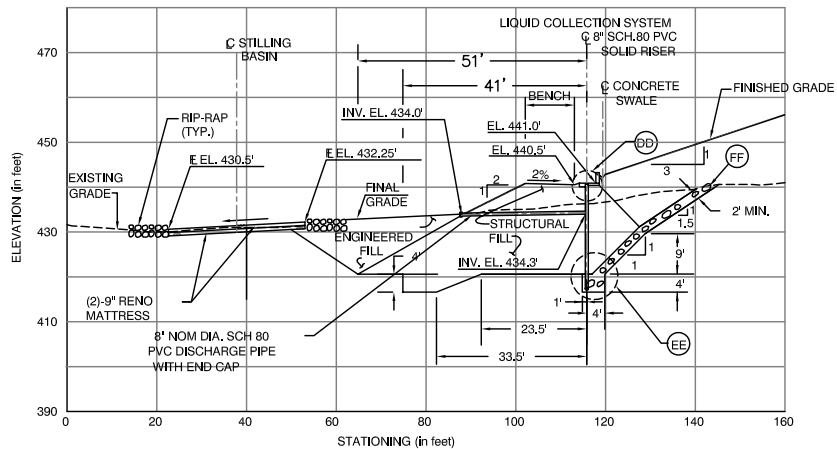
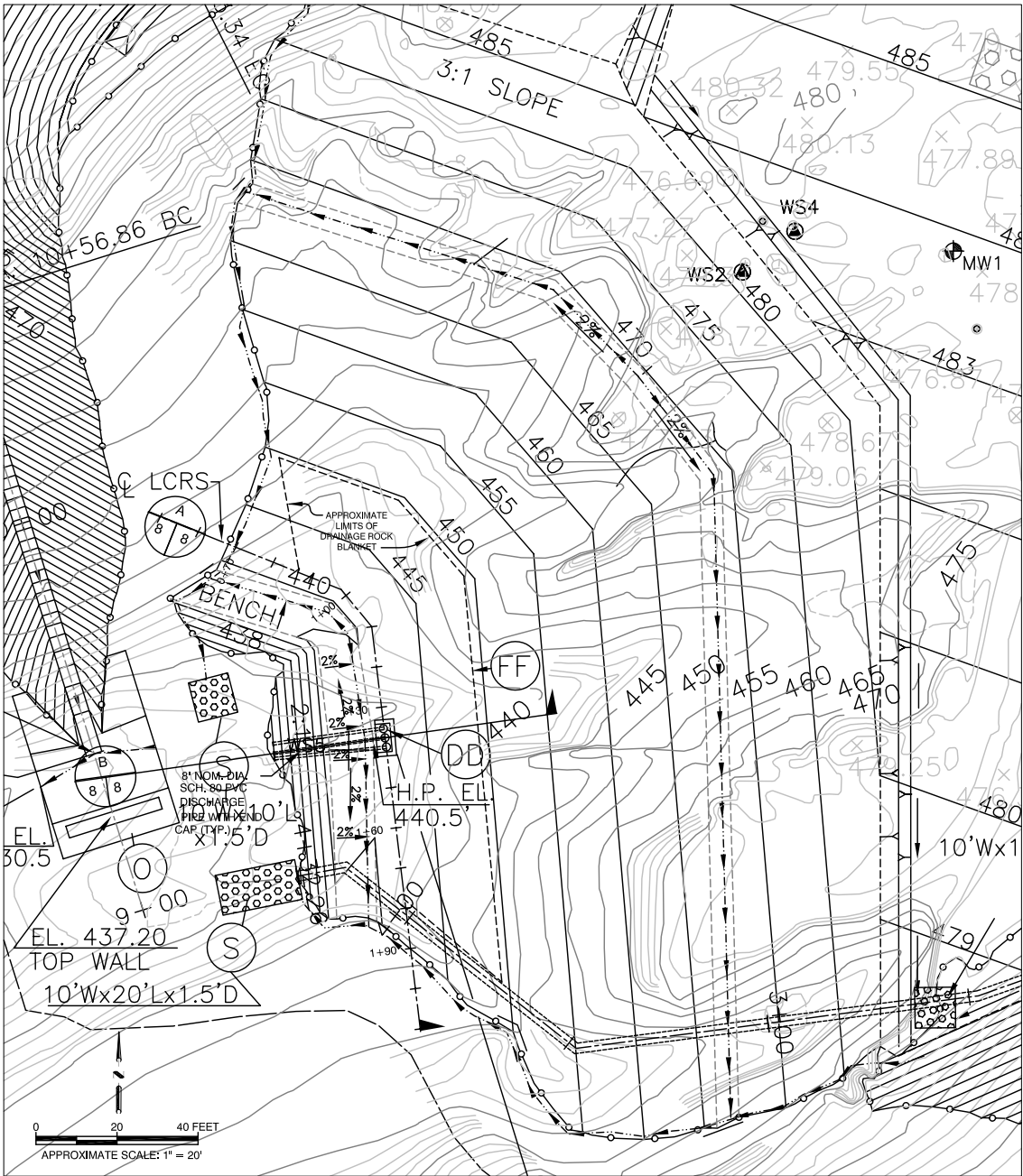
PERMIT DESIGN, NOT FOR CONSTRUCTION

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PRIVATE CONTRACT

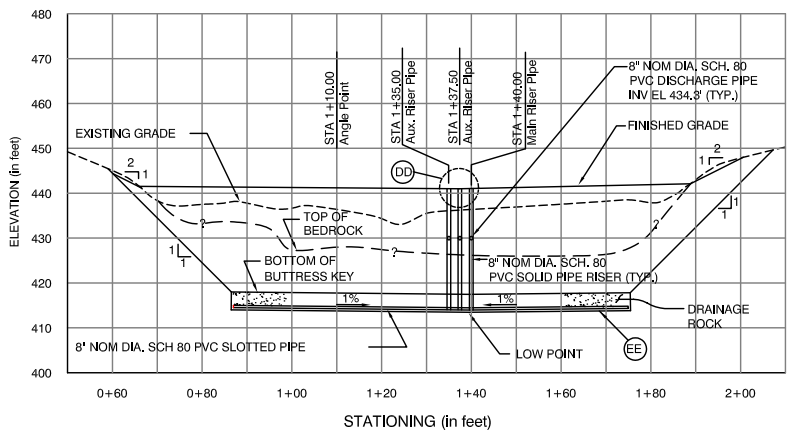
LANDFILL CLOSURE CROSS-SECTIONS:					
SEBI PROPERTY CLOSURE PROJECT					
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 7 OF 14 SHEETS				W.O. No. 420058	
FOR CITY ENGINEER		DATE			
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ISSUED FOR RAW	ENR AMERICA	MLR	FEB 2005		
					1784 - 6331
					NAD 83 COORD.
					144-1771
					LAMBERT COORDINATES
CONTRACTOR	DATE STARTED				
INSPECTOR	DATE COMPLETED				
				31928-7-D	



TOE OF SLOPE BUTRESS AND LIQUID COLLECTION SYSTEM SECTION

Scale: 1" = 20'



COORDINATE TABLE OF 8" NOM. DIA. SCH. 80 PVC SLOTTED PIPE						
STATION	NORTHING	EASTING	FINISHED GRADE ELEV. (ft.)	BOTTOM BUTRESS KEY ELEV. (ft.)	COLLECTION PIPE INVERT ELEV. (ft.)	DESCRIPTION
0+86.50	1,785,443.95	6,333,387.36	441.22	418.24	414.23	Begin Gravel Trench
0+87.00	1,785,443.77	6,333,387.82	441.21	418.23	414.52	Begin Subdrain Collector Pipe
0+98.12	1,785,439.62	6,333,398.14	441.13	418.13	414.42	Angle Point
1+10.00	1,785,430.45	6,333,405.69	441.03	418.00	414.29	Angle Point
1+35.00	1,785,405.63	6,333,408.68	441.00	417.75	414.04	Auxiliary Riser Pipe
1+40.00	1,785,400.66	6,333,409.28	441.00	417.70	413.99	Main Riser Pipe
1+75.50	1,785,365.42	6,333,413.52	441.99	418.05	414.34	End Subdrain Collector Pipe
1+76.00	1,785,364.92	6,333,413.54	442.00	418.06	414.35	End Gravel Trench



LIQUID COLLECTION SYSTEM PROFILE

Scale: 1" = 20'

CONSTRUCTION NOTES:

- DD CONSTRUCT RISER PIPE SURFACE COMPLETION PER 
- EE CONSTRUCT SUBDRAIN COLLECTION TRENCH PER 
- FF EXTEND DRAINAGE ROCK/GEOTEXTILE BLANKET TO ELEVATION 440 IN ALL AREAS UP-CANYON OF CENTERLINE AND BELOW BASE OF FOUNDATION LAYER

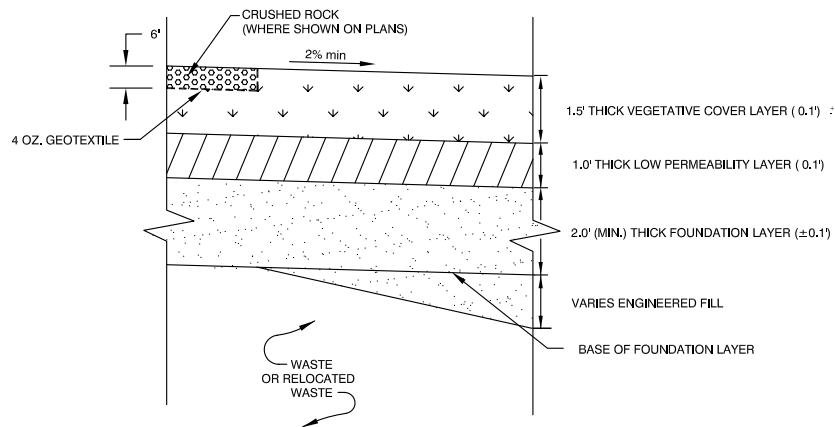
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PRIVATE CONTRACT

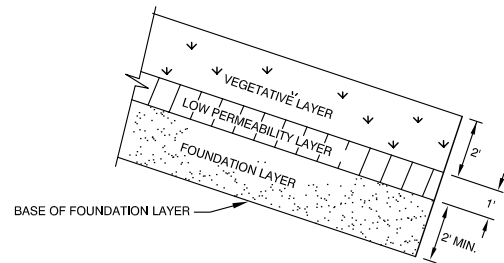
SLOPE BUTRESS FILL AND LIQUID COLLECTION SYSTEM:				CITY OF SAN DIEGO, CALIFORNIA		W.D. NO. 420058	
SBSI PROPERTY CLOSURE PROJECT				ENGINEERING DEPARTMENT SHEET 8 OF 14 SHEETS			
FOR CITY ENGINEER		DATE		BY		APPROVED	
DESCRIPTION		DATE		FILMED			
ISSUED FOR RAW		ENV AMERICA		MLR		FEB 2005	
CONTRACTOR		DATE STARTED		1784 - 6331		NAD 83 COORD.	
INSPECTOR		DATE COMPLETED		144-1771		LAMBERT COORDINATES	
				31928-8-D			

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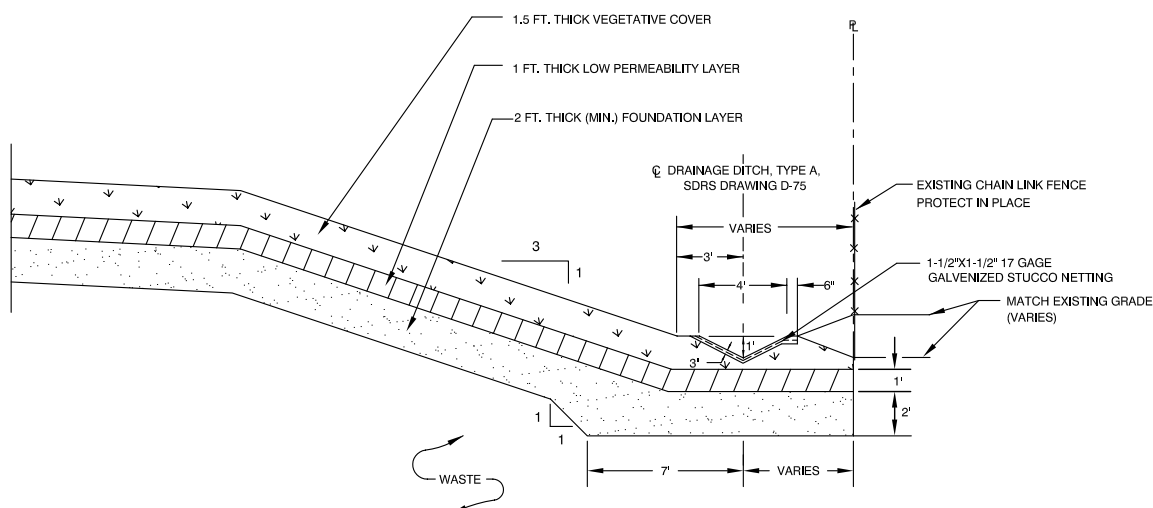
TYPICAL SECTION FINAL COVER SYSTEM

Scale: 1" = 2'



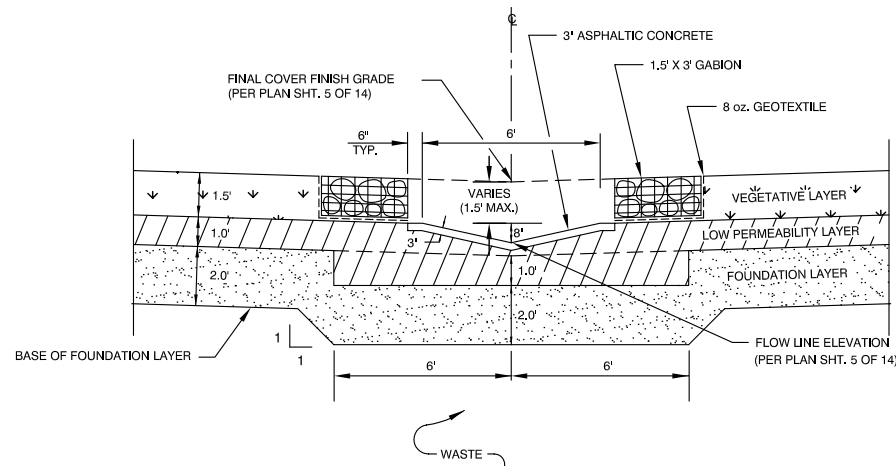
FINAL COVER SYSTEM - FRONT SLOPE

Scale: 1" = 3'



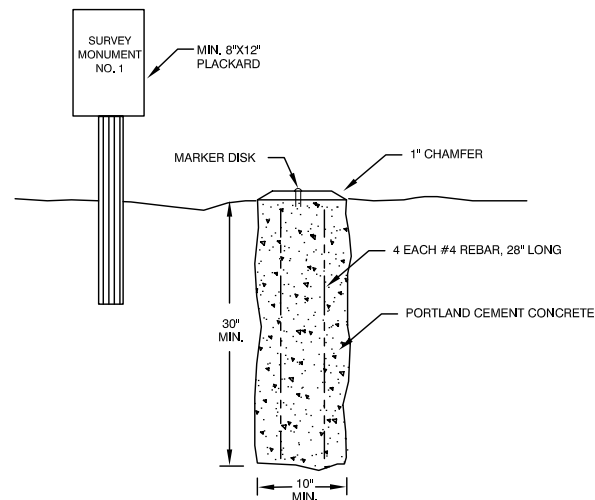
TOE OF SLOPE KEY AND PERIMETER V-DITCH

Scale: 1" = 4'



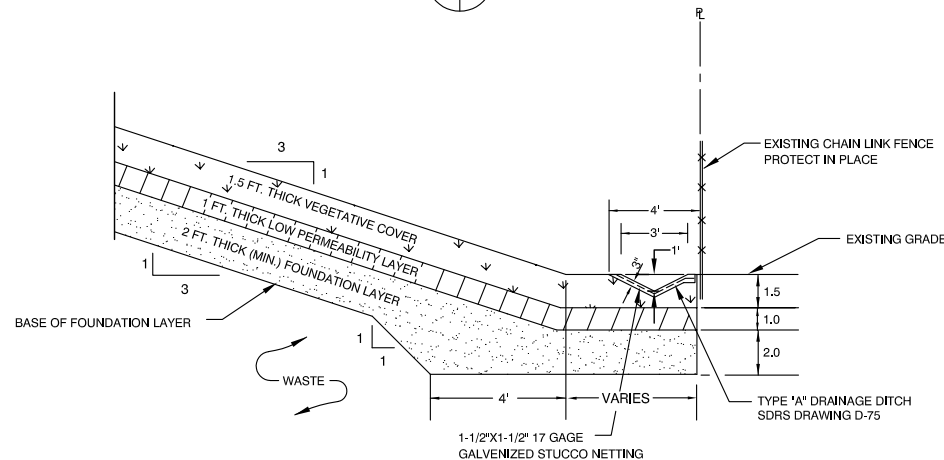
ASPHALT CONCRETE SWALE

Scale: 1" = 3'



SETTLEMENT SURVEY MONUMENT

Scale: 1" = 10"



TOE OF SLOPE KEY

Scale: 1" = 4'



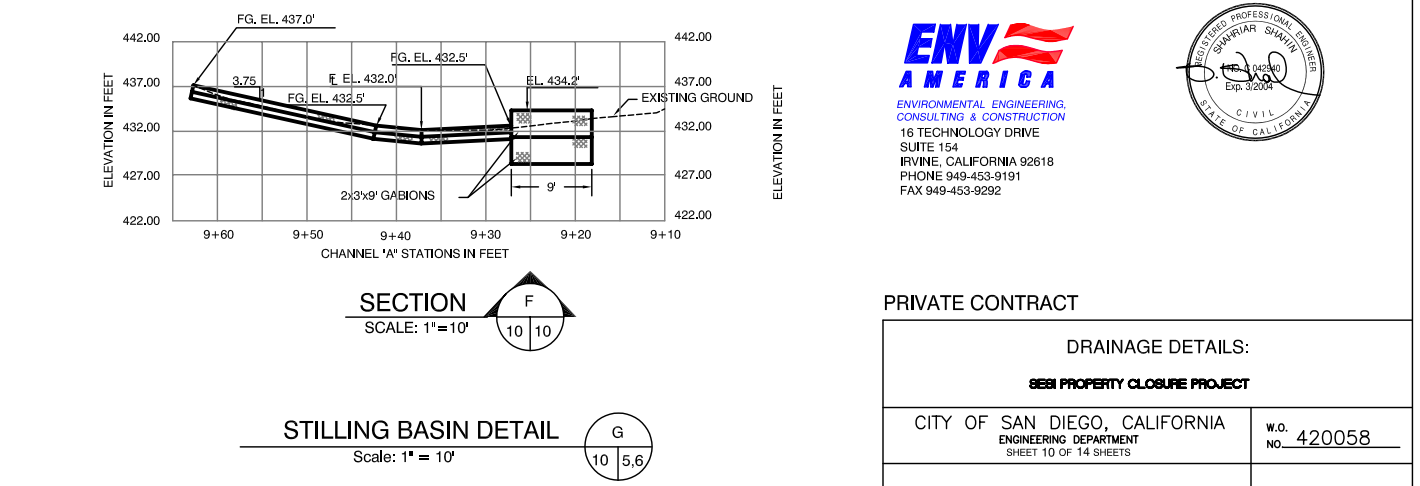
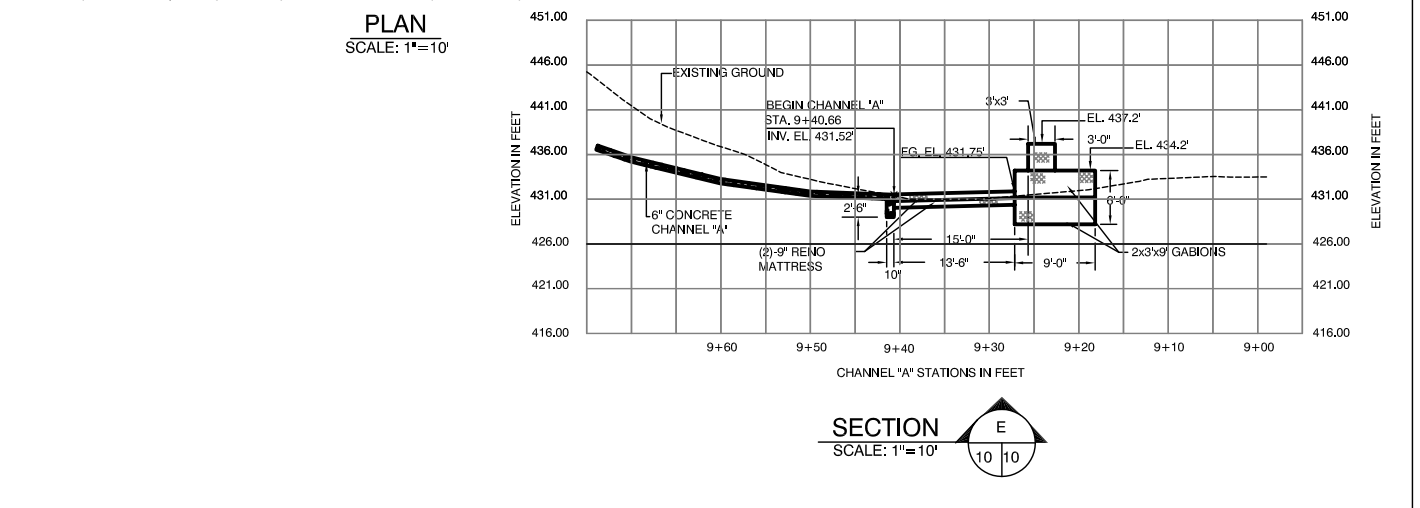
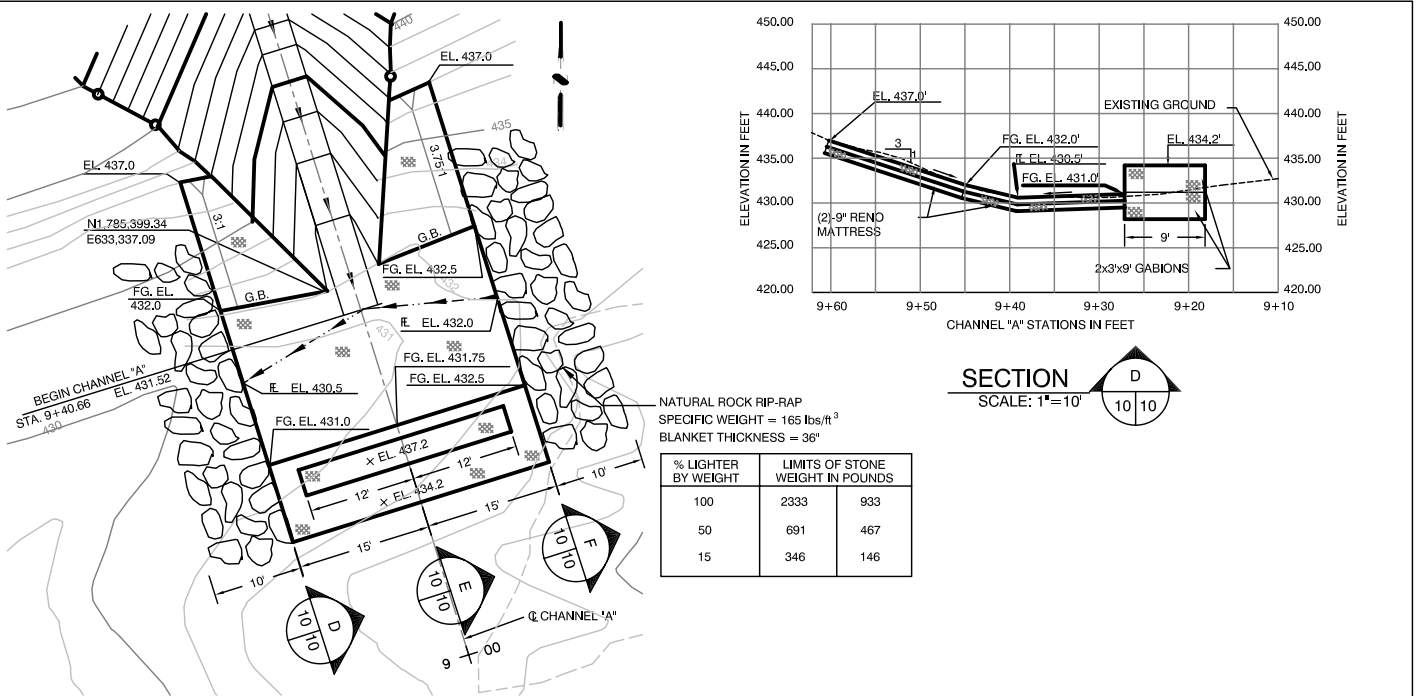
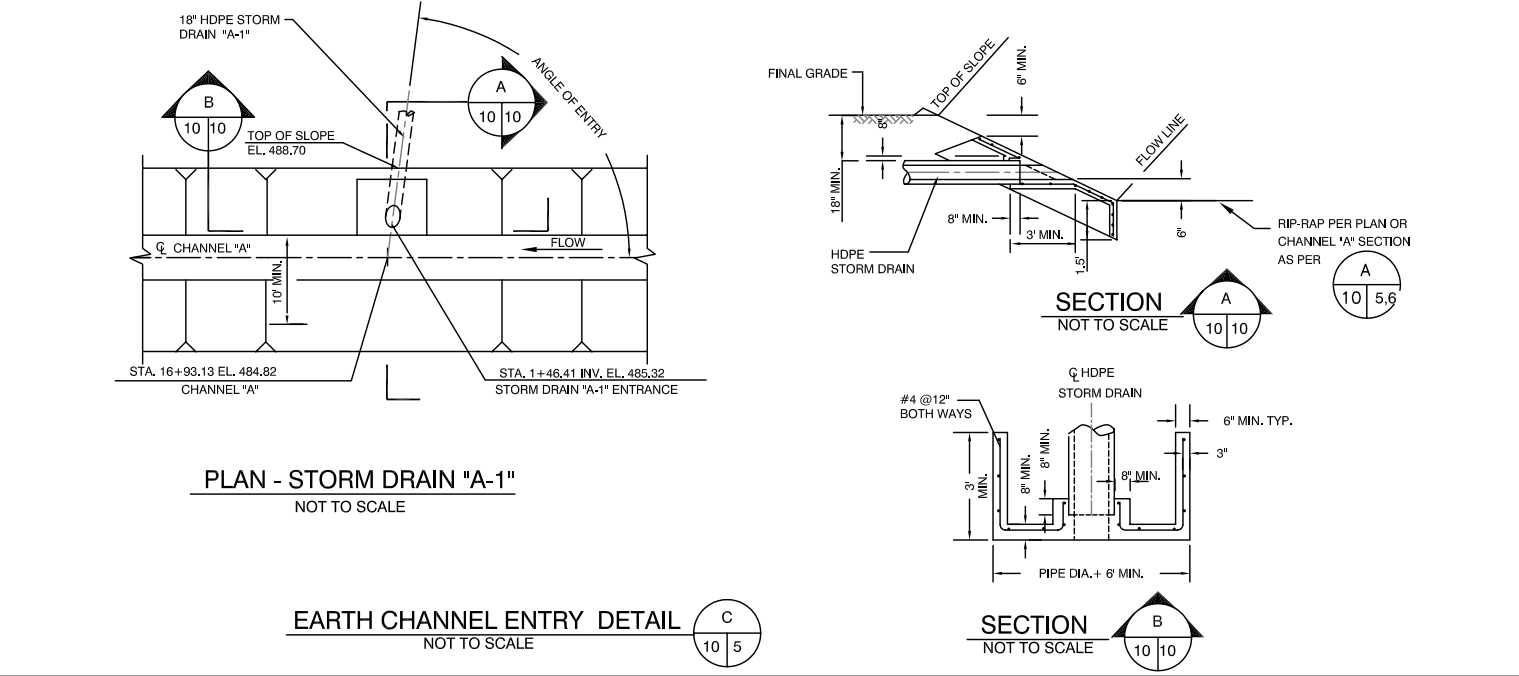
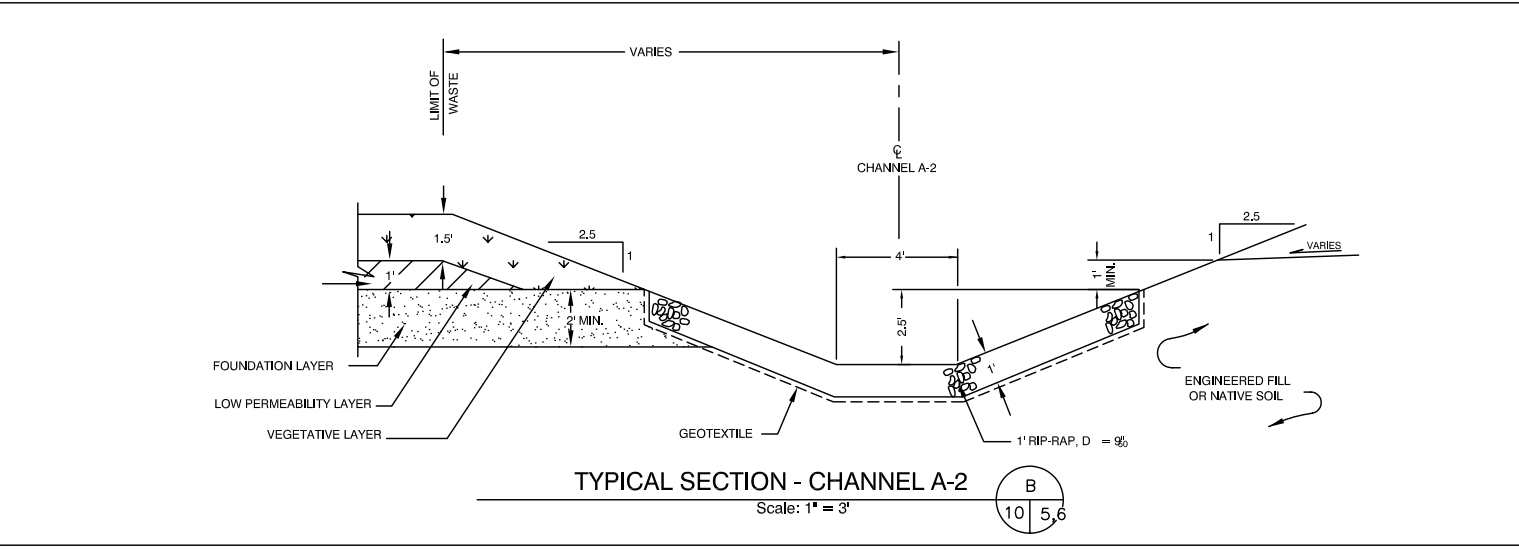
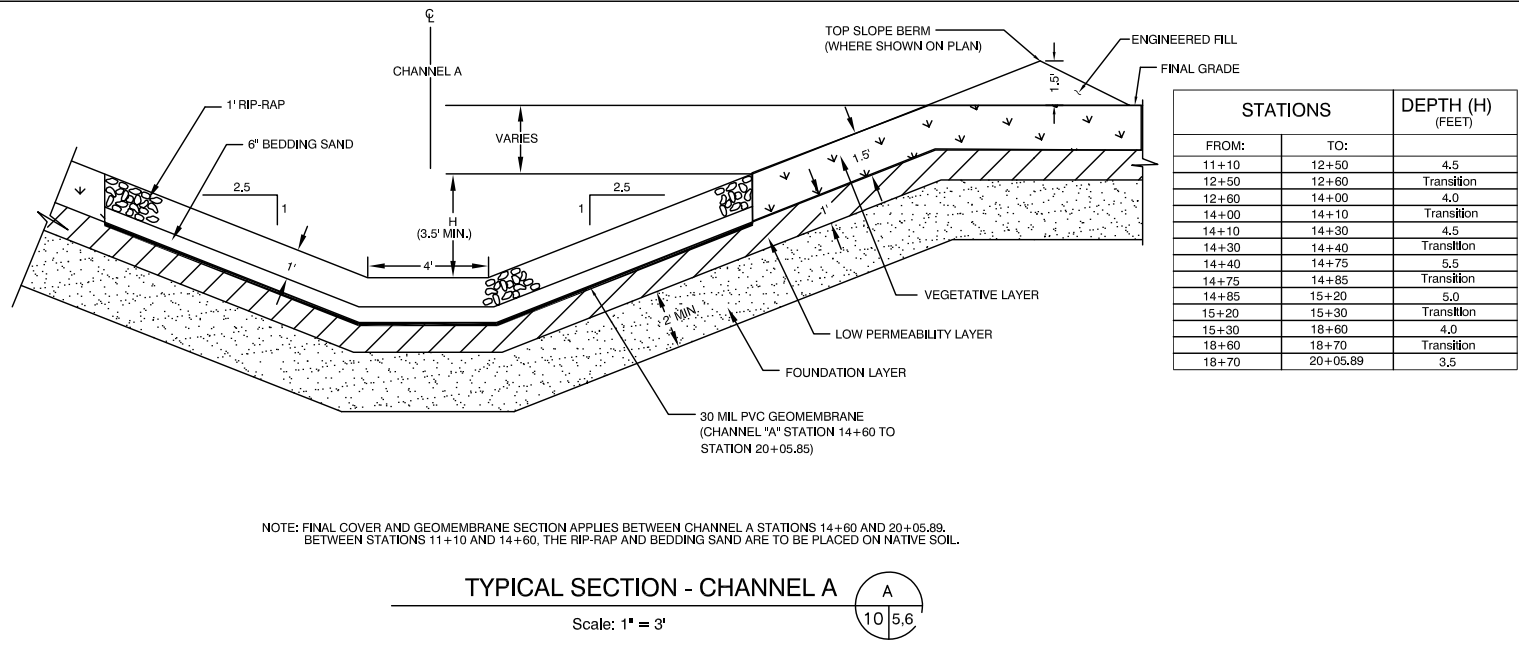
PERMIT DESIGN, NOT FOR CONSTRUCTION

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FAX 949-453-9292



PRIVATE CONTRACT

FINAL COVER DETAILS					W.O. NO. 420058	
SEMI PROPERTY CLOSURE PROJECT						
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 9 OF 14 SHEETS						
FOR CITY ENGINEER	BY	APPROVED	DATE	FILMED		
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005		1784 - 6331 NAD 83 COORD.	
					144-1771 LAMBERT COORDINATES	
CONTRACTOR	DATE STARTED					31928-9-D
INSPECTOR	DATE COMPLETED					



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PRIVATE CONTRACT

DRAINAGE DETAILS:

SEMI PROPERTY CLOSURE PROJECT

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 10 OF 14 SHEETS

W.O. NO. 420058

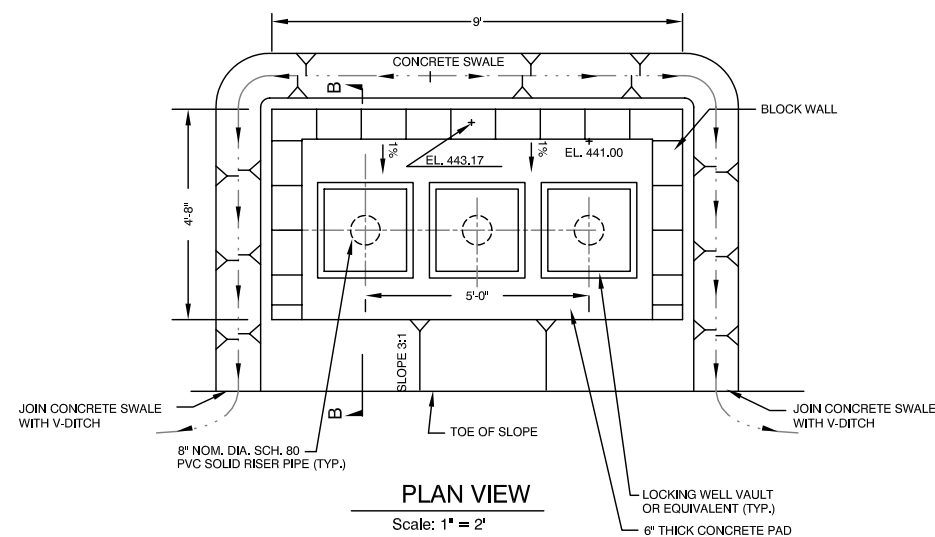
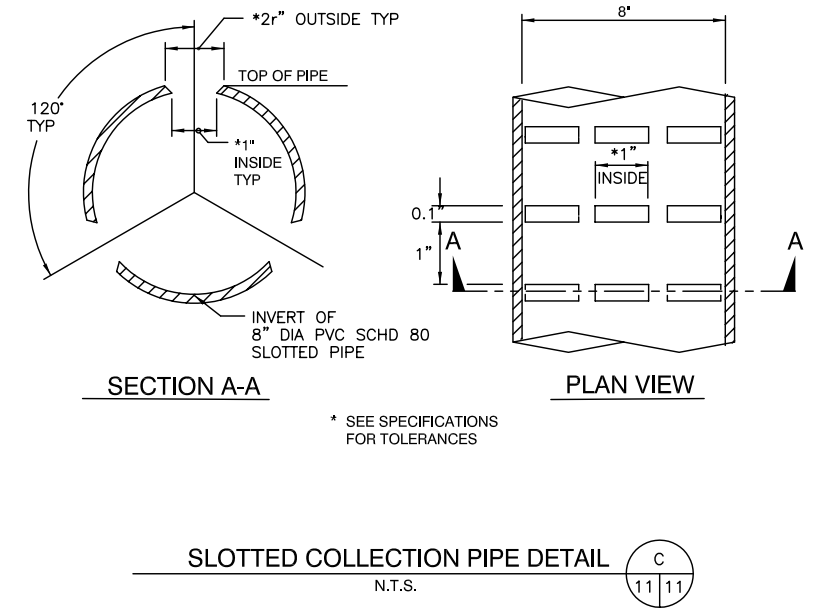
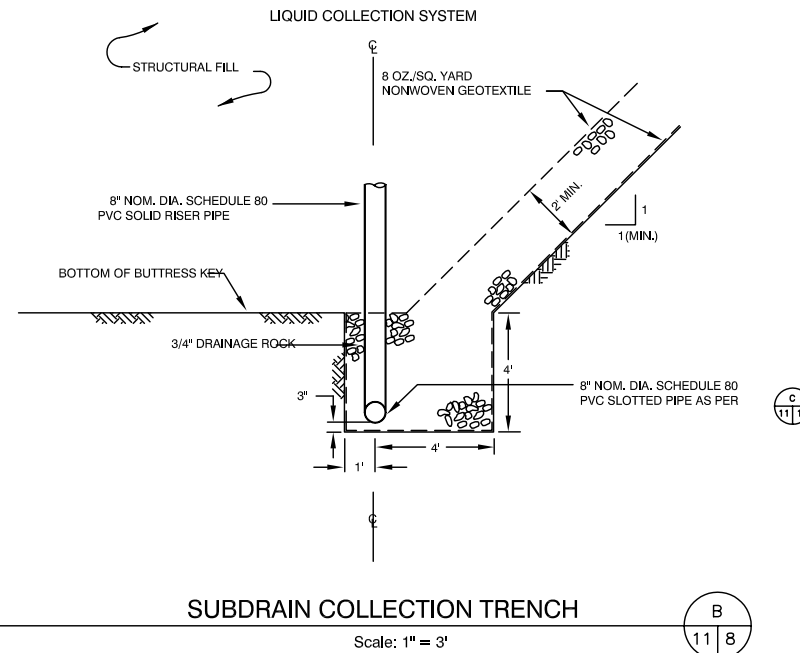
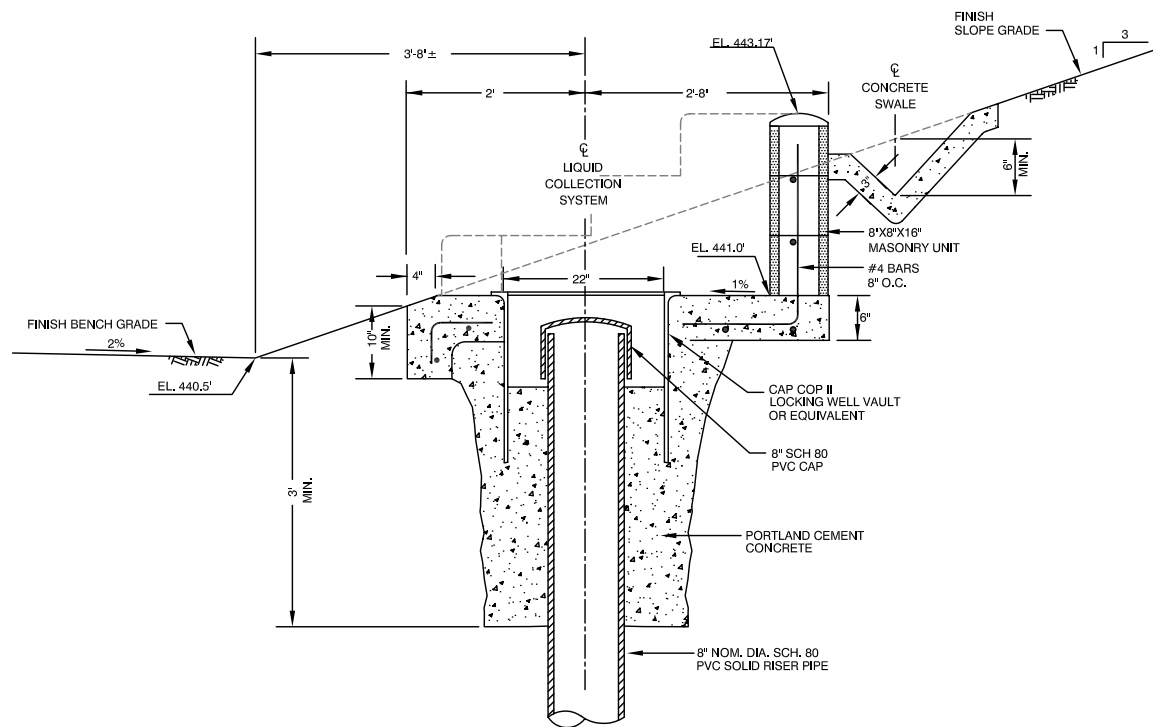
FOR CITY ENGINEER		DATE	
DESCRIPTION	BY	APPROVED	FILMED
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005

1784 - 6331
NAD 83 COORD.

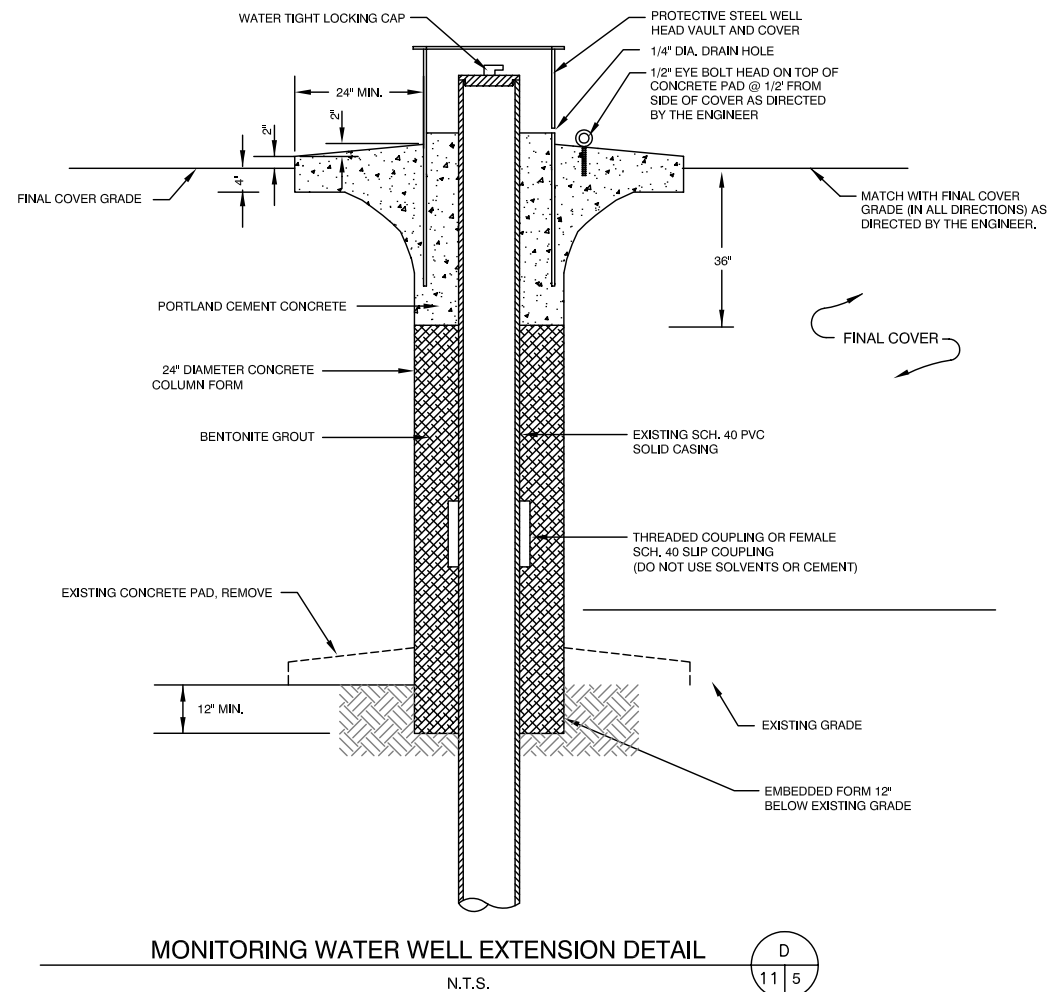
144-1771
LAMBERT COORDINATES

CONTRACTOR INSPECTOR DATE STARTED DATE COMPLETED

31928-10-D



RISER PIPE SURFACE COMPLETION
AS SHOWN

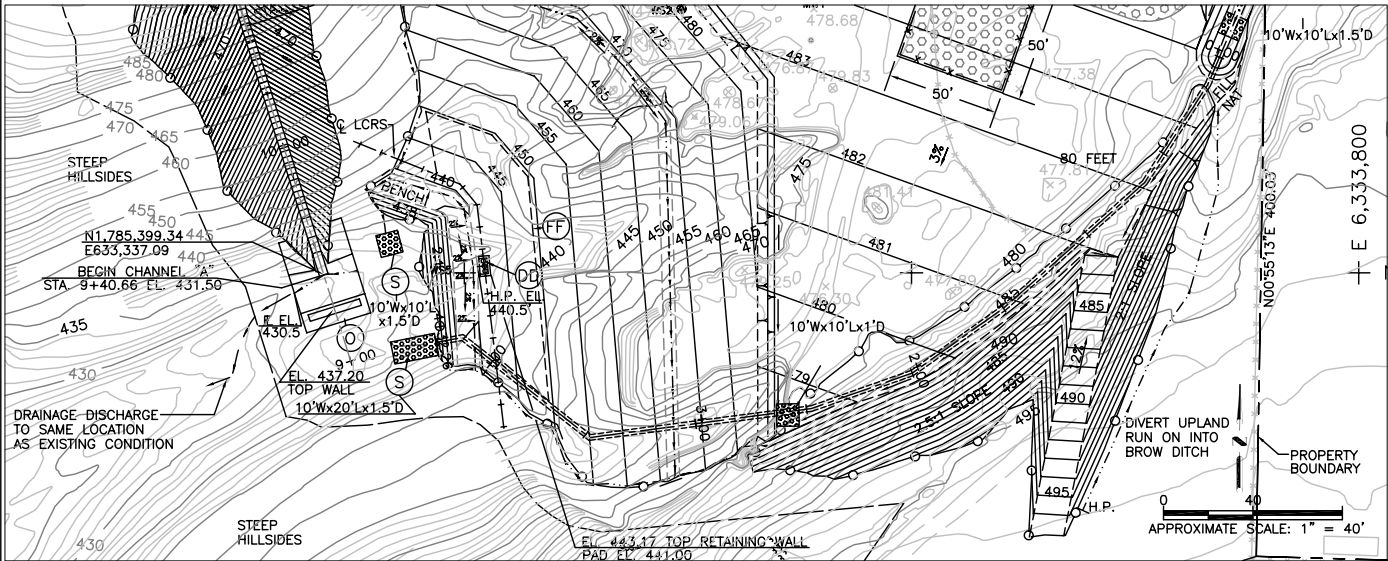


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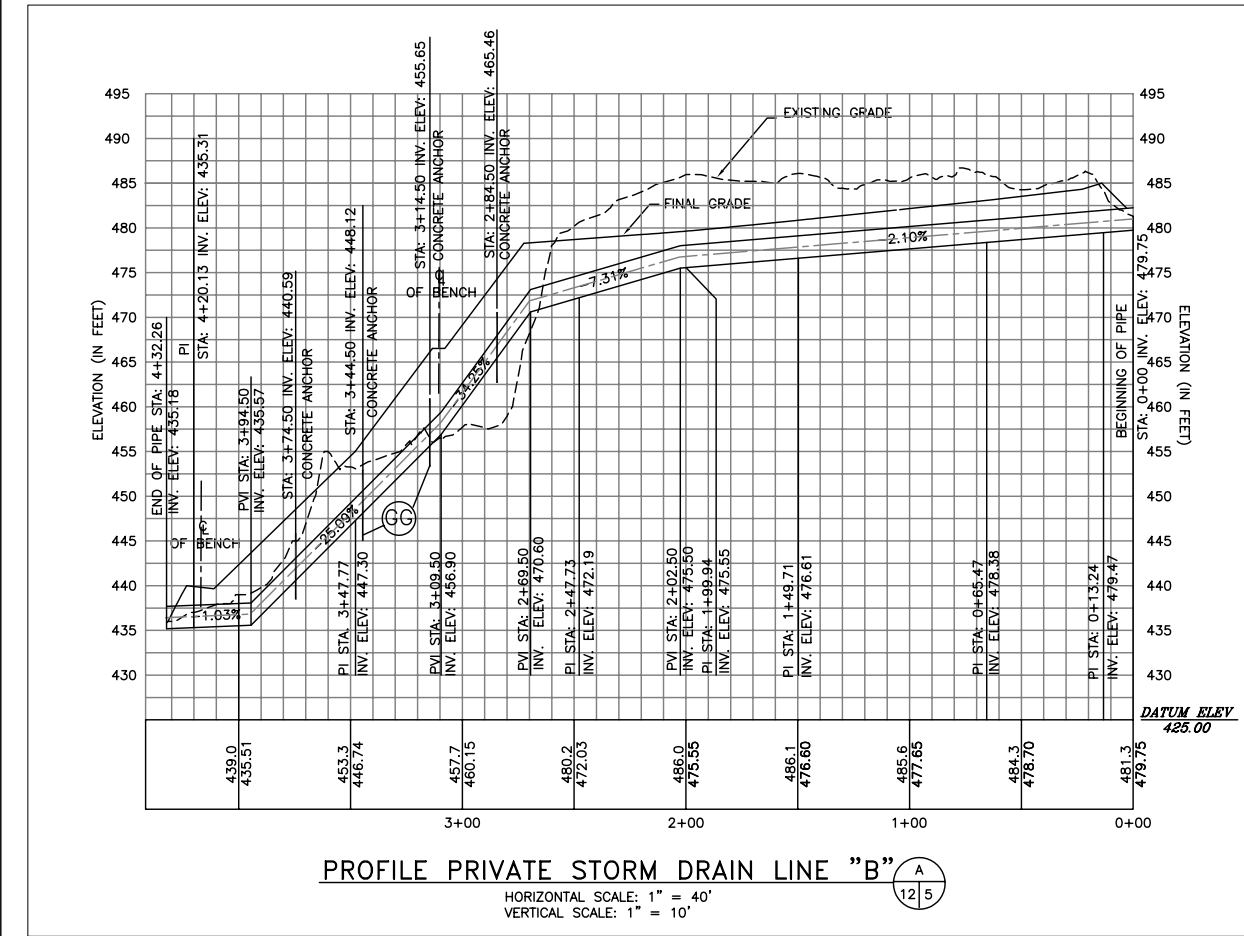
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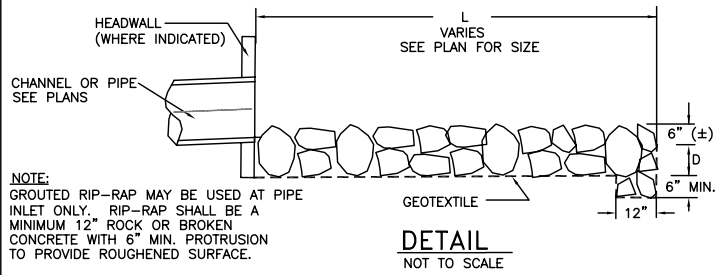
PRIVATE CONTRACT									
ENVIRONMENTAL MONITORING AND CONTROL SYSTEM DETAILS:									
SEBI PROPERTY CLOSURE PROJECT									
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 11 OF 14 SHEETS								W.O. NO. 420058	
FOR CITY ENGINEER		DATE							
DESCRIPTION	BY	APPROVED	DATE	FILMED					
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005						
CONTRACTOR								DATE STARTED	
INSPECTOR								DATE COMPLETED	
								1784 - 6331	
								NAD 83 COORD.	
								144-1771	
								LAMBERT COORDINATES	
								31928-11-D	



PLAN PRIVATE STORM DRAIN LINE "B"
SCALE: 1" = 40'



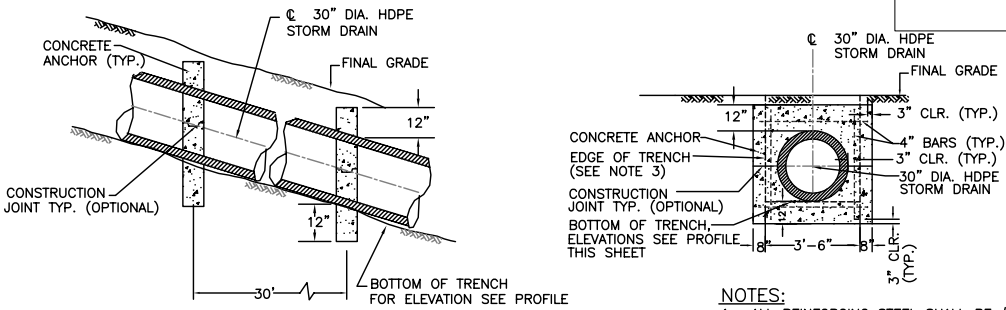
PROFILE PRIVATE STORM DRAIN LINE "B"
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'



CONSTRUCTION NOTES :

- (O) CONSTRUCT GABION AND RIP-RAP STILLING BASIN PER (E) 10/5.6
(Q) CONSTRUCT 30" DIA HDPE STORM DRAIN LINE "B" PER (A) 12/5
(R) CONSTRUCT STRAIGHT HEADWALL - TYPE A PER SAN DIEGO STD. DWG. D-30
(S) CONSTRUCT RIP RAP PER DETAIL ON SHEET 12 AND PER DIMENSIONS SHOWN ON PLANS
(T) CONSTRUCT 18" DIA HDPE STORM DRAIN PER (B) 12/5
(U) CONSTRUCT EARTH CHANNEL ENTRY PER (E) 10/5
(CC) CONSTRUCT STORMDRAIN INLET APRON PER SAN DIEGO STD. DWG. D-39
(GG) CONSTRUCT CONCRETE ANCHOR BLOCK PER (C) 12/12

SLOPING PIPE CONCRETE ANCHOR DETAIL
NOT TO SCALE



- NOTES:
1. ALL REINFORCING STEEL SHALL BE #4 BARS
2. CONCRETE SHALL BE CLASS 500-C-2500.
3. EMBED ANCHOR 8" MIN. INTO TRENCH SIDEWALLS

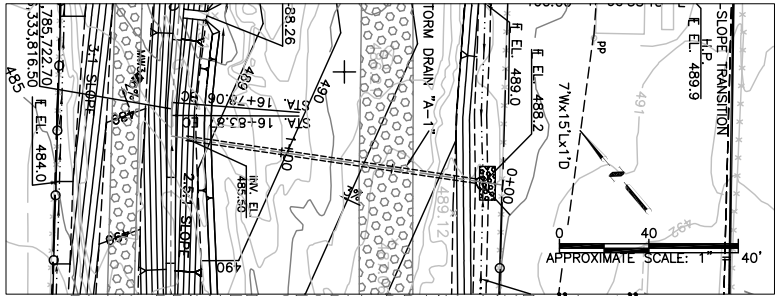
PERMIT DESIGN, NOT FOR CONSTRUCTION

COORDINATE TABLE PRIVATE STORM DRAIN LINE "A-1"

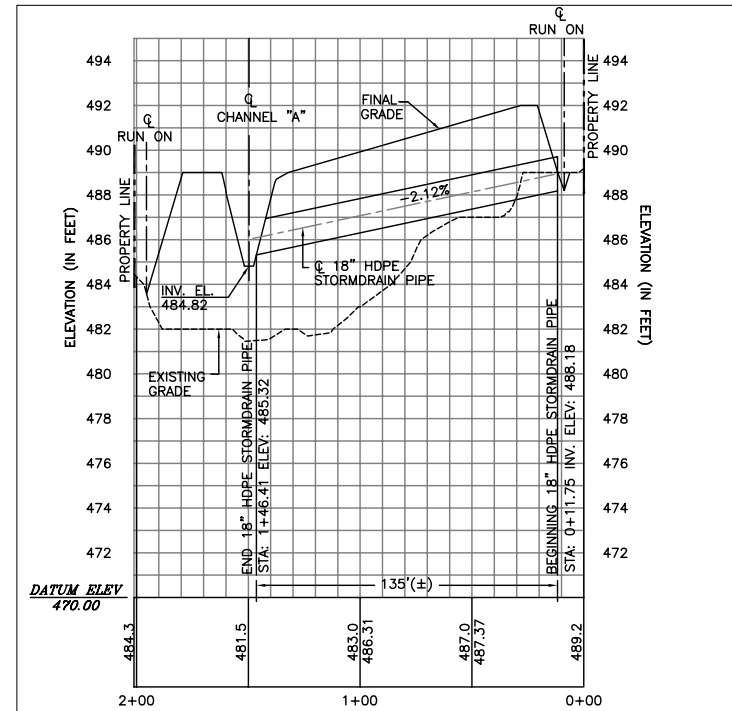
STATION	NORTHING	EASTING	LAT. "A-1" PIPE INVERT ELEV. (FT.)	DESCRIPTION
0+11.75	1785859.10	6333848.83	488.18	Beginning 18" HDPE Stormdrain Pipe
0+50.00	1785821.26	6333843.24	487.37	
1+00	1785771.80	6333835.93	486.31	
1+46.41	1785725.89	6333829.14	485.32	End 18" HDPE Stormdrain Pipe at Channel "A"

COORDINATE TABLE PRIVATE STORM DRAIN LINE "B"

STATION	NORTHING	EASTING	STORM DRAIN "B" PIPE INVERT ELEV. (FT.)	DESCRIPTION
0+00	1785496.40	6333737.76	479.75	Beginning 30" HDPE Stormdrain Pipe
0+13.24	1785484.22	6333732.56	479.47	PI
0+50	1785453.33	6333712.64	478.80	
0+65.47	1785440.33	6333704.26	478.38	PI
1+00	1785417.37	6333678.47	477.65	
1+49.71	1785384.32	6333641.34	476.61	PI
1+50	1785384.15	6333641.11	476.60	
1+99.94	1785355.22	6333600.40	475.55	PI
2+00	1785355.20	6333600.34	475.55	
2+47.73	1785339.32	6333555.32	472.19	PI
2+50	1785339.03	6333553.08	472.03	
3+00	1785332.54	6333503.48	460.15	
3+47.77	1785326.36	6333456.14	447.30	PI
3+50	1785327.73	6333454.38	446.74	
4+00	178538.61	6333415.05	435.51	
4+20.13	1785371.04	6333399.22	435.31	PI
4+32.26	1785368.84	6333387.29	435.18	End 30" HDPE Stormdrain pipe



PLAN PRIVATE STORM DRAIN LINE "A-1"
SCALE: 1" = 40'



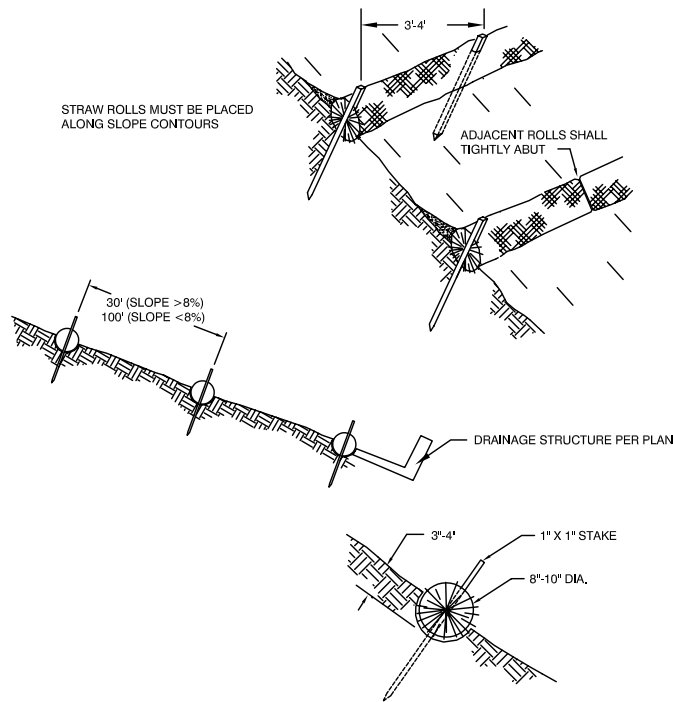
PROFILE PRIVATE STORM DRAIN LINE "A-1"
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

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PRIVATE CONTRACT

PLANS AND PROFILES FOR STORM DRAIN LATERAL "A-1", LINE "B":			
SESI PROPERTY CLOSURE PROJECT			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 12 OF 14 SHEETS		V.D. NO. 420058	
FOR CITY ENGINEER		DATE	
DESCRIPTION	BY	APPROVED	DATE
ISSUED FOR RAW	ENV AMERICA	MLR	FEB 2005
		1784 - 6331 NAD 83 COORD.	
		144-1771 LAMBERT COORDINATES	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		31928-12-D	

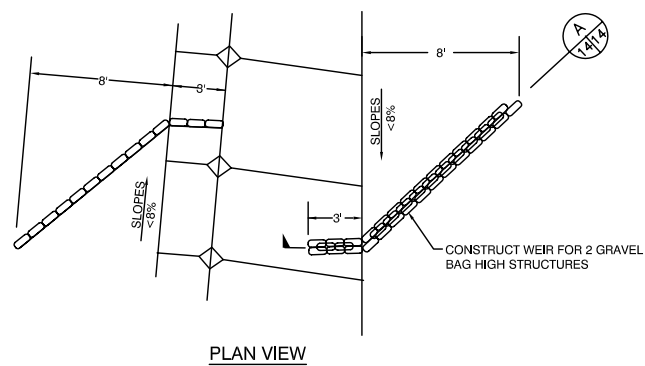


STRAW ROLL NOTES:

1. INSTALL PER MANUFACTURES RECOMMENDATIONS.
2. TYPICAL STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3'-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW ROLL DETAILS

NOT TO SCALE



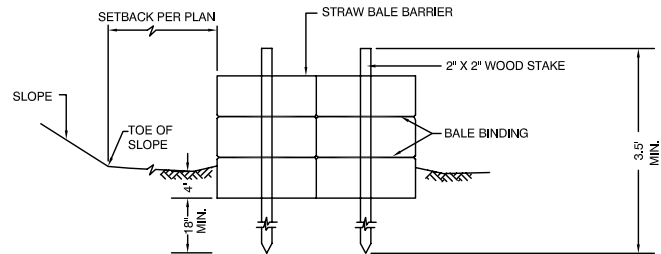
SECTION



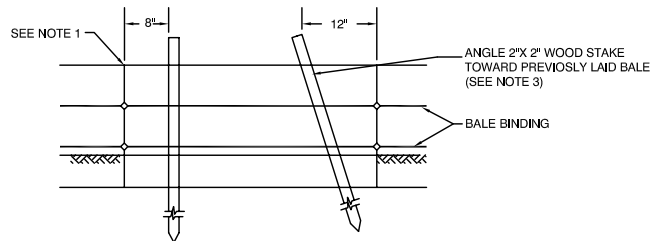
CONSTRUCT WEIR FOR 2 GRAVEL BAG HIGH STRUCTURES

GRAVEL BAG CHEVRON DETAIL

NOT TO SCALE



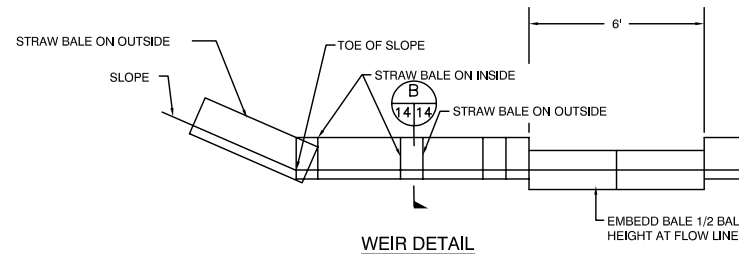
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PROFILE

STRAW BALE DETAIL

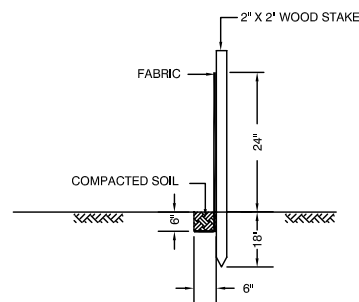
NOT TO SCALE



WEIR DETAIL

NOTES:

1. PLACE STRAW BALES TIGHTLY TOGETHER
2. TAMP EMBEDMENT SPOILS AGAINST SIDES OF INSTALLED BALES.
3. DRIVE ANGLED WOOD STAKE BEFORE VERTICAL STAKE TO ENSURE TIGHT ABUTMENT TO ADJACENT BALE.
4. SANDBAG ROWS AND LAYERS SHALL BE OFFSET TO ELIMINATE GAPS.



SILT FENCE DETAIL

NOT TO SCALE



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PRIVATE CONTRACT

SEDIMENT AND EROSION CONTROL DETAILS:

SEB PROPERTY CLOSURE PROJECT

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 14 OF 14 SHEETS

W.O.
NO. 420058

FOR CITY ENGINEER

DATE

DESCRIPTION BY APPROVED DATE FILMED

ISSUED FOR RAW ENV AMERICA MLR FEB 2005

1784 - 6331
NAD 83 COORD.

144-1771
LAMBERT COORDINATES

CONTRACTOR DATE STARTED
INSPECTOR DATE COMPLETED

31928-14-D

PERMIT DESIGN, NOT FOR CONSTRUCTION